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The Vertical Distribution of Zooplankton and Ichthyoplankton on the Nova Scotia Shelf during September 1985

M.K. Lewis and D.D. Sameoto

Biological Sciences Branch
Department of Fisheries and Oceans

Bedford Institute of Oceanography
P.O. Box 1006
Dartmouth, Nova Scotia
Canada B2Y 4A2

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THE VERTICAL DISTRIBUTION OF ZOOPLANKTON AND ICHTHYOPLANKTON ON THE NOVA SCOTIA SHELF DURING SEPTEMBER 1985

by

M.K. Lewis and D.D. Sameoto

Biological Sciences Branch
Department of Fisheries and Oceans

Bedford Institute of Oceanography
P.O.Box 1006
Dartmouth, Nova Scotia
Canada B2Y 4A2

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ABSTRACT

Lewis, M.K. and D.D. Sameoto. 1990. The vertical distribution of zooplankton and ichthyoplankton on the Nova Scotia shelf during September 1985. Can. Data Rep. Fish. Aquat. Sci. No. 803: iv + 149 p.

During September 16 to 30, 1985, zooplankton and micronekton samples were collected from the surface down to approximately 20m off the bottom down to a maximum depth of 1427m at various locations on the Nova Scotia shelf and slope. These samples provided data on the major sources of zooplankton on the Nova Scotia shelf with major emphasis placed on *Calanus finmarchicus*. In this report we make available the raw data for all species plus depth profiles for selected species.

RESUMÉ

Lewis, M.K. and D.D. Sameoto. 1990. The vertical distribution of zooplankton and ichthyoplankton on the Nova Scotia shelf during September 1985. Can. Data Rep. Fish. Aquat. Sci. No. 803: iv + 149 p.

Au cours de la période du 16 au 30 septembre 1985, des échantillons de zooplancton et de micronecton ont été prélevés dans la région du talus continental au large de la Nouvelle Ecosse, à des profondeurs allant de la surface à environ 20m au-dessus du fond, jusqu'à un maximum de 1427m. Cette étude vise à determiner la principale composante des populations de zooplancton de la zone côtière de Nouvelle Ecosse, en se référant particulièrement à l'espèce *Calanus finmarchicus*. Nous donnons dans ce rapport les résults bruts pour toutes les espèces, ainsi que les répartitions verticales de quelques espèces sélectionnées.

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INTRODUCTION

The following is a report of BIONESS data collected during C.S.S. Dawson cruise #85028 on the Nova Scotia shelf between September 16-30, 1985. The primary objective of this cruise was to determine the vertical distribution of zooplankton species in the basins on the Scotian shelf using the BIONESS. In addition, these samples provide data on the major source of zooplankton on the shelf with emphasis on *Calanus finmarchicus*. The third objective was to use the optical zooplankton counter mounted on the BIONESS and compare its data with the biological samples.

METHODS

Biological Sampling

All zooplankton samples and oceanographic data described below were collected with the BIONESS sampler (Sameoto et al.,1980). The BIONESS was equipped with ten one m^2 243µm mesh nets. The BIONESS was towed at 3-5 knots along an oblique path through the various depth strata. The volume of water sampled per sample varied from 13 to 1057m^3. The winch speed during sampling was constant and therefore the volume filtered depended upon the depth range of the sample. Flow through each net and the net depth were constantly monitored.

For six BIONESS tows, 50-80μm mesh nets 12cm^2 in diameter, were fitted into the mouths of the standard nets (tows 7, 9, 12, 14, 16 and 26). This data will be published in a future data report on microzooplankton.

During most shallow tows, (0-100m), depth strata were sampled from the surface downward whereas for deep tows (i.e. >100m), the net was lowered to the deepest depth strata and sampled from the bottom up. The BIONESS provided simultaneous data on the temperature and salinity, time of sampling, speed through the water, net flow and volume of water filtered. Conductivity, (salinity), and temperature were measured by a Guildline Instruments digital conductivity cell model 87410 and temperature probe model 87401. Values for the time, depth, flow, volume, temperature, conductivity, and salinity were recorded on magnetic tape once every second during the tows. Oxygen data is not available for this cruise.

The BIONESS tows were conducted at stations along 3 lines across the Scotian shelf (Fig. 1). The first series of BIONESS tows (#1-11) were taken along the Halifax line which included 4 stations in Emerald basin (tows 3-5,10,11). The second line, tows 12-17, ran from shallow water off the coast of Louisbourg, Cape Breton to the edge of the shelf. Tow 20 was in Louisbourg basin. Tow 21 was on the edge of the Laurentian Channel. The third line, tows 22-27 ran through the center of the Laurentian Channel into slope water.

The optical zooplankton sampler (Herman 1988) was mounted on the side of the BIONESS frame for 8 tows (tows 10, 11, 20-22, 24-26). Data from the counter provided numbers and sizes of zooplankton in the 0.2 to 30mm size range. This data was stored for future analysis and is not presented in this report.

Sample Analysis

All zooplankton samples were preserved in 4% buffered formalin and seawater solution. In the lab, the total sample was wet weighed and all fish larvae and other organisms >1cm were removed. These >1cm animals were identified to the lowest taxon possible and a wet weight for each group recorded. A subsample of each group was measured for length to the nearest millimeter. The fish were measured for standard length. The euphausiids were measured from the tip of the rostrum to the tip of the telson.

The remainder of the sample containing zooplankton <1cm in length was split using a Motoda splitter (Motoda 1959) and/or a pipette down to approximately 400 individuals. All individuals in this subsample were identified to species for the Copepoda and genus for other classes and phyla. *Calanus finmarchicus*, *C. glacialis* and *C. hyperboreus* were staged. Stage VI *Calanus* were sexed and females were examined and classified as immature, gravid or spent (Lewis and Sameoto, 1989). This analysis was completed by Spry Tech Biological Services, Elmsdale, N.S. All data were entered into the Cyber computer and an IBM microcomputer.

Calanus spp. were identified down to species stage level and then measured for future comparison with the bugcounter data. The number of individuals measured as well as the stage centroid length and standard deviation is presented for tows 10, 11 and 20 in table 1.

RESULTS

Twenty-seven BIONESS tows were made on the twenty-four stations.

Temperature/Salinity/Depth Profiles

Temperature and salinity depth profiles from the BIONESS ctd data are presented (Fig. 2), plus TS diagrams. Data were not available for tows 13, 18, 16, 22 and 25.

Zooplankton Composition and Depth Distribution

Numbers per cubic meter and numbers per square meter for all species (<1cm) are listed in Table 2.

Depth profiles are included for all species of Copepoda with an abundance greater than ten occurrences over the entire cruise. Depth distributions for these species in the three areas are shown in Fig. 3. Tows 16-17 and 26-27 were combined to provide a complete depth profile for day and night on the Louisbourg Basin and Laurentian Channel lines.

Length Frequencies

Histograms of length frequencies are presented for: amphipoda; mysidacea; euphausiacea (*Meganyctiphanes norvegica, Thysanoessa inermis, T. longicaudata*); Chaetognatha and three fish (*Benthosema glaciale, Cyclothone* sp. and *Merluccius bilinearis*). (Fig. 4).

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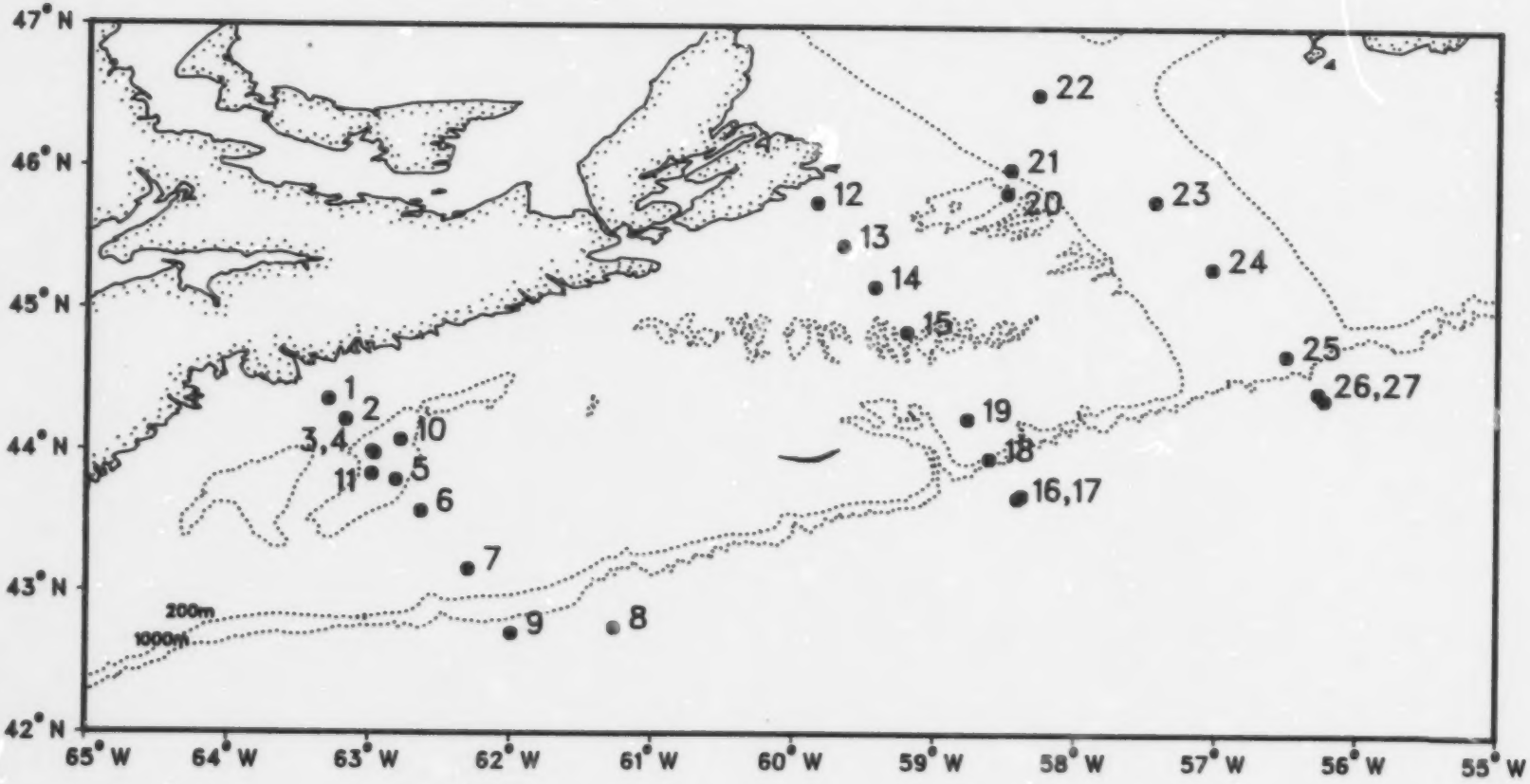
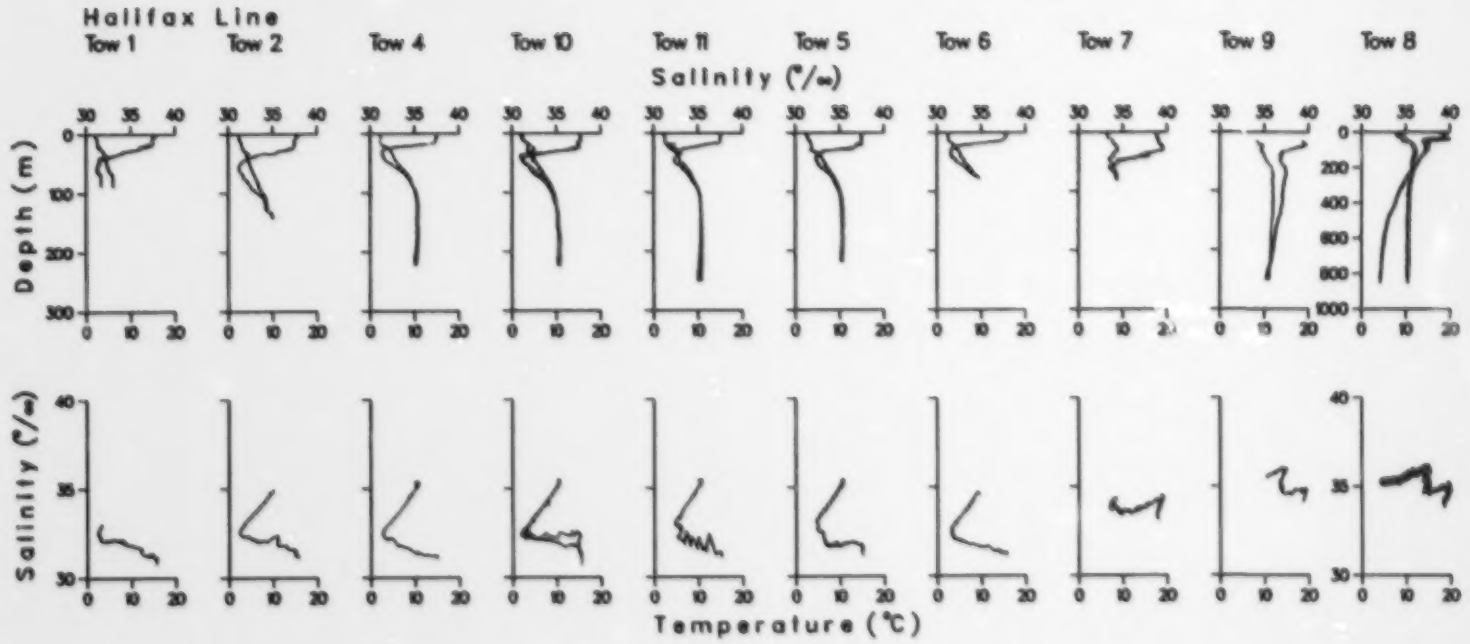
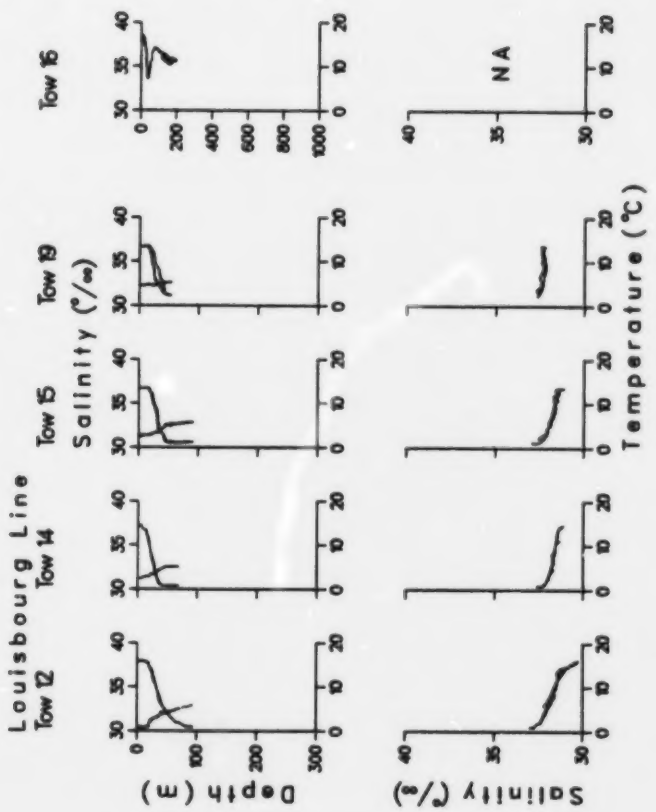


Fig. 1. Location of Sampling. (Halifax Line = tows 1–11; Louisbourg Line = tows 12–19; Laurentian Channel Line = tows 22–27).

Fig. 2. Temperature and salinity depth profiles and TS diagrams for representative tows in the four areas: a) Halifax line including Emerald Basin; b) the Louisbourg line; c) Louisbourg Basin and surrounding region; and d) the Laurentian Channel line.


Halifax Line
Tow 1
Tow 2
Tow 4
Tow 10
Tow 11
Tow 5
Tow 6
Tow 7
Tow 9
Tow 8
Salinity (‰)
Depth (m)
Salinity (‰)
Temperature (°C)


Louisbourg Line
Tow 12
Tow 14
Tow 15
Tow 19
Tow 16
Salinity (‰)
Depth (m)
Salinity (‰)
Temperature (°C)
NA

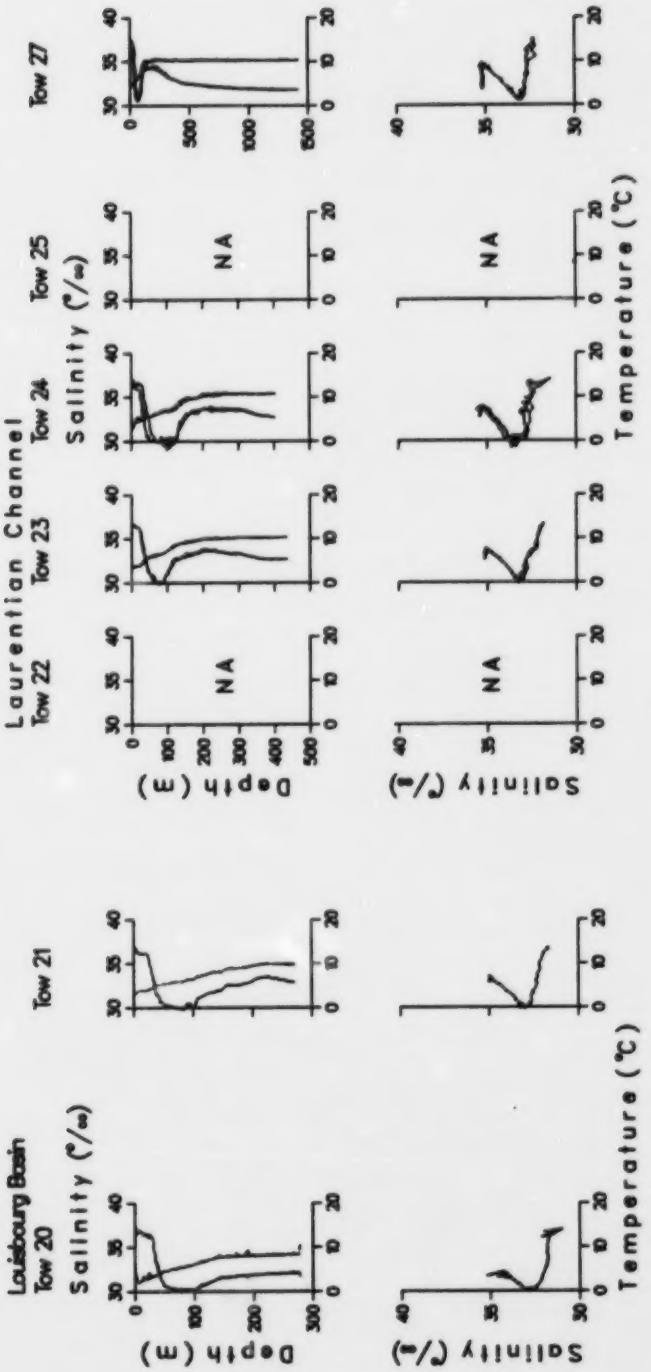
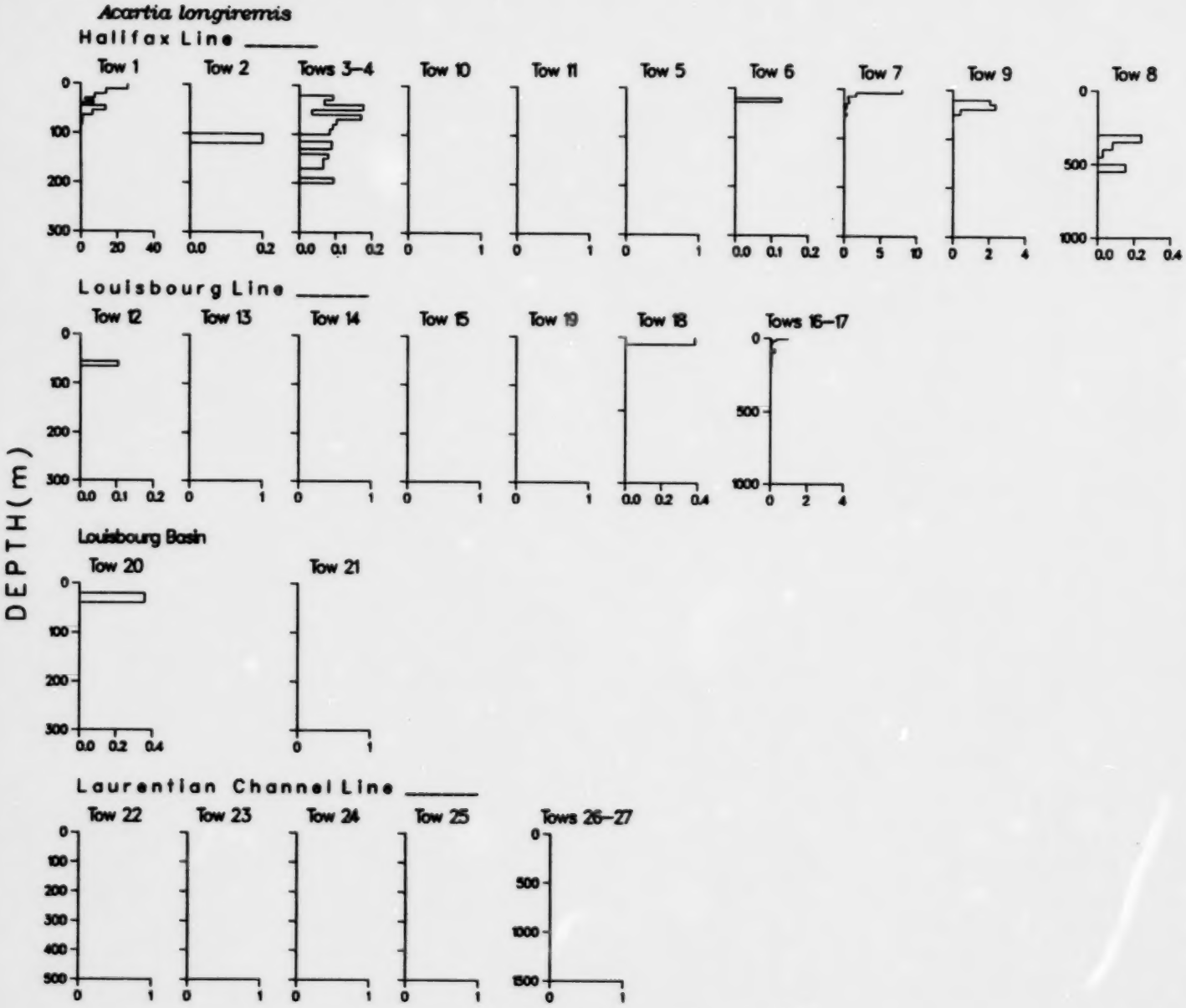

Louisbourg Basin
Tow 20
Tow 21
Laurentian Channel
Tow 22
Tow 23
Tow 24
Tow 25
Tow 27
Salinity (‰)
Temperature (°C)
Depth (m)
NA

Fig. 3. Vertical distributions for species of Copepoda which occurred in more than 10 BIONESS samples. The profiles are arranged according to the position of the tows on the shelf: the Halifax line including Emerald Basin (tows 1-11); the Louisbourg line (tows 12-18); Louisbourg Basin (tow 20) and surrounding region (tow 21) and the Laurentian Channel line (tows 22-27). *Calanus* spp. were identified down to stage level. *Calanus* spp. stage VI females were subdivided according to maturity: developing (D), gravid (G) or spent (S). The total for *Calanus* spp. was also plotted (T). Unidentified, damaged and exoskeletons of copepoda were lumped together to produce one profile labeled "U/D/E Copepoda".

Fig. 3. (Continued)

Fig. 3. (Continued)



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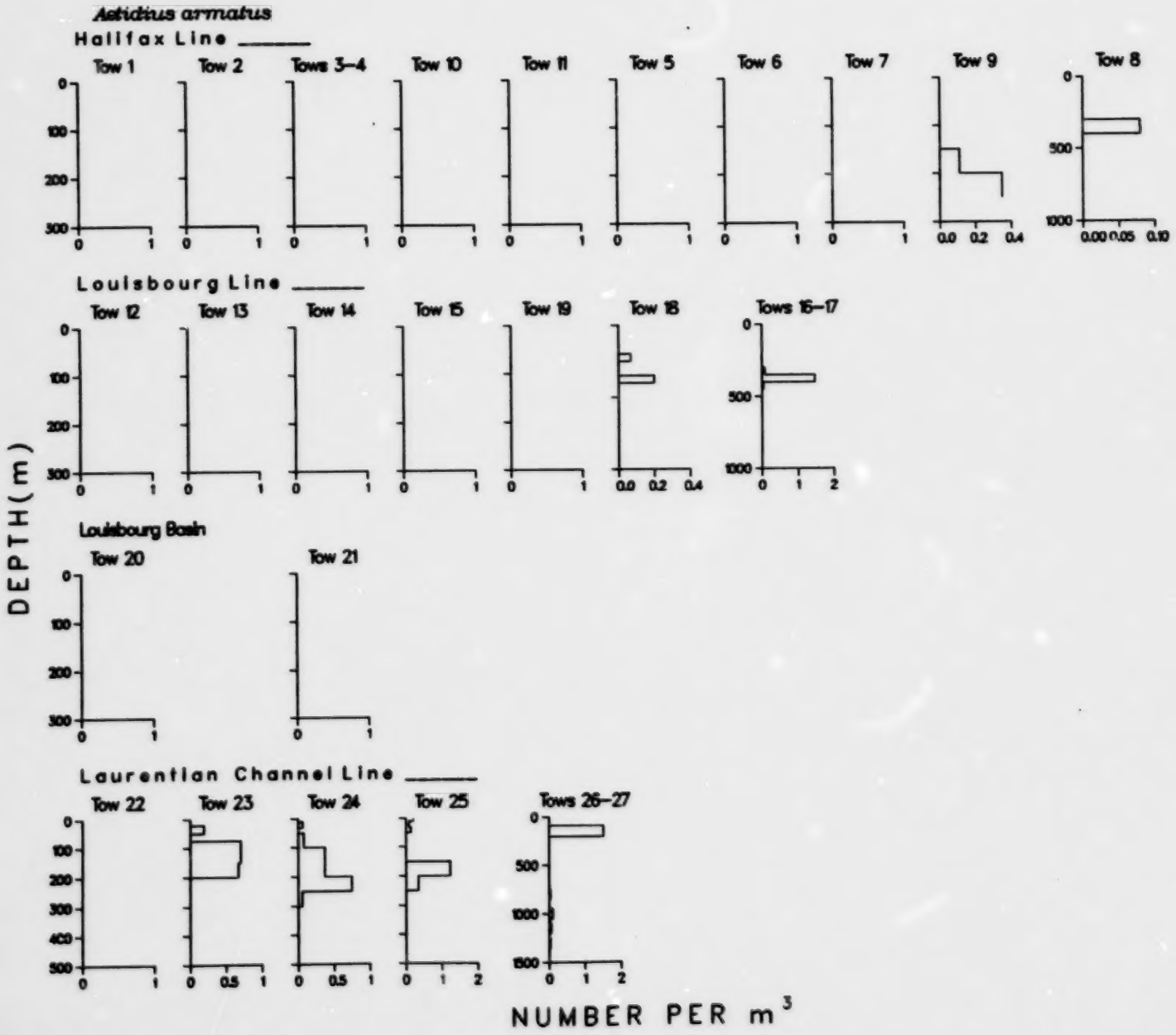

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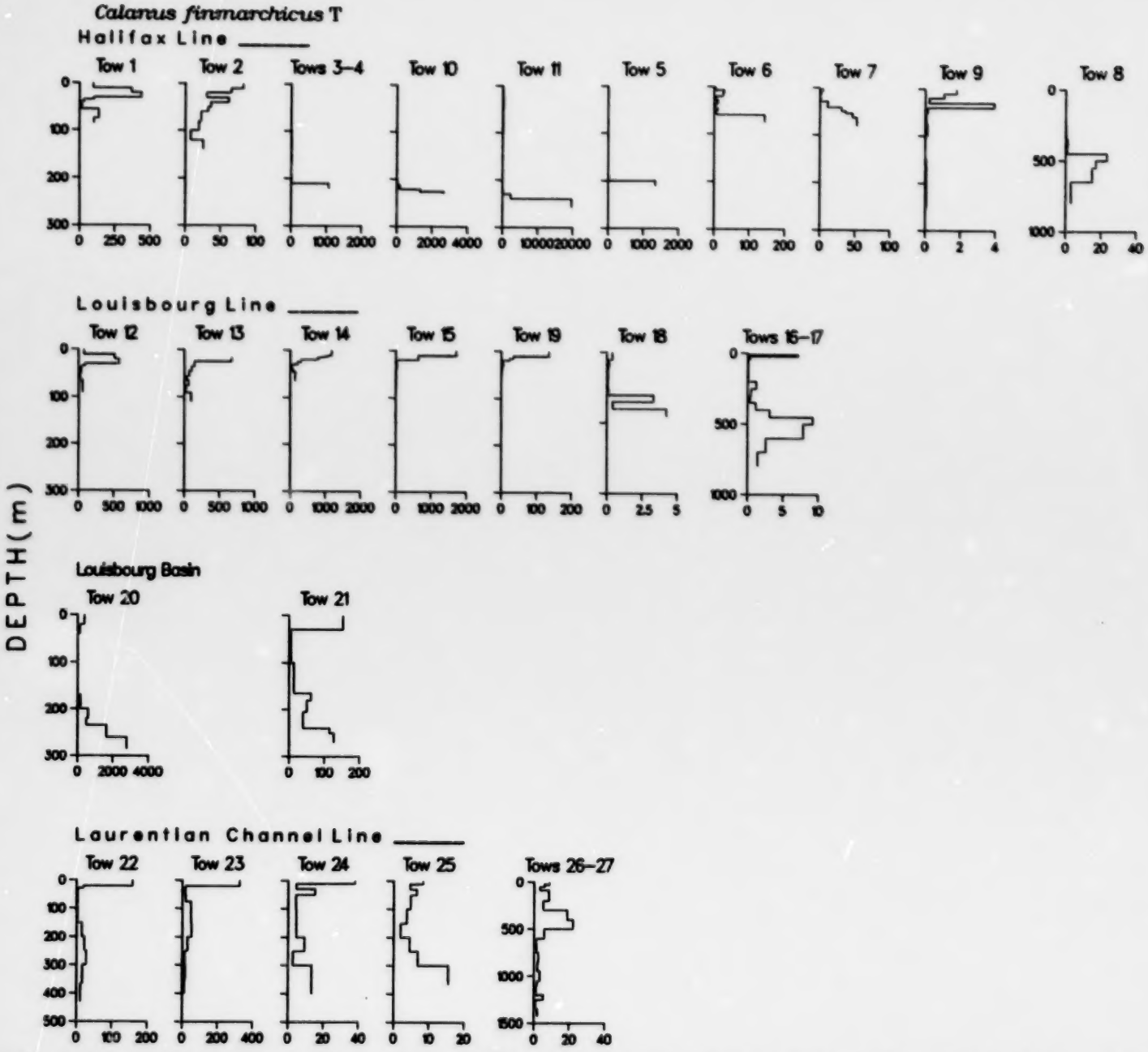

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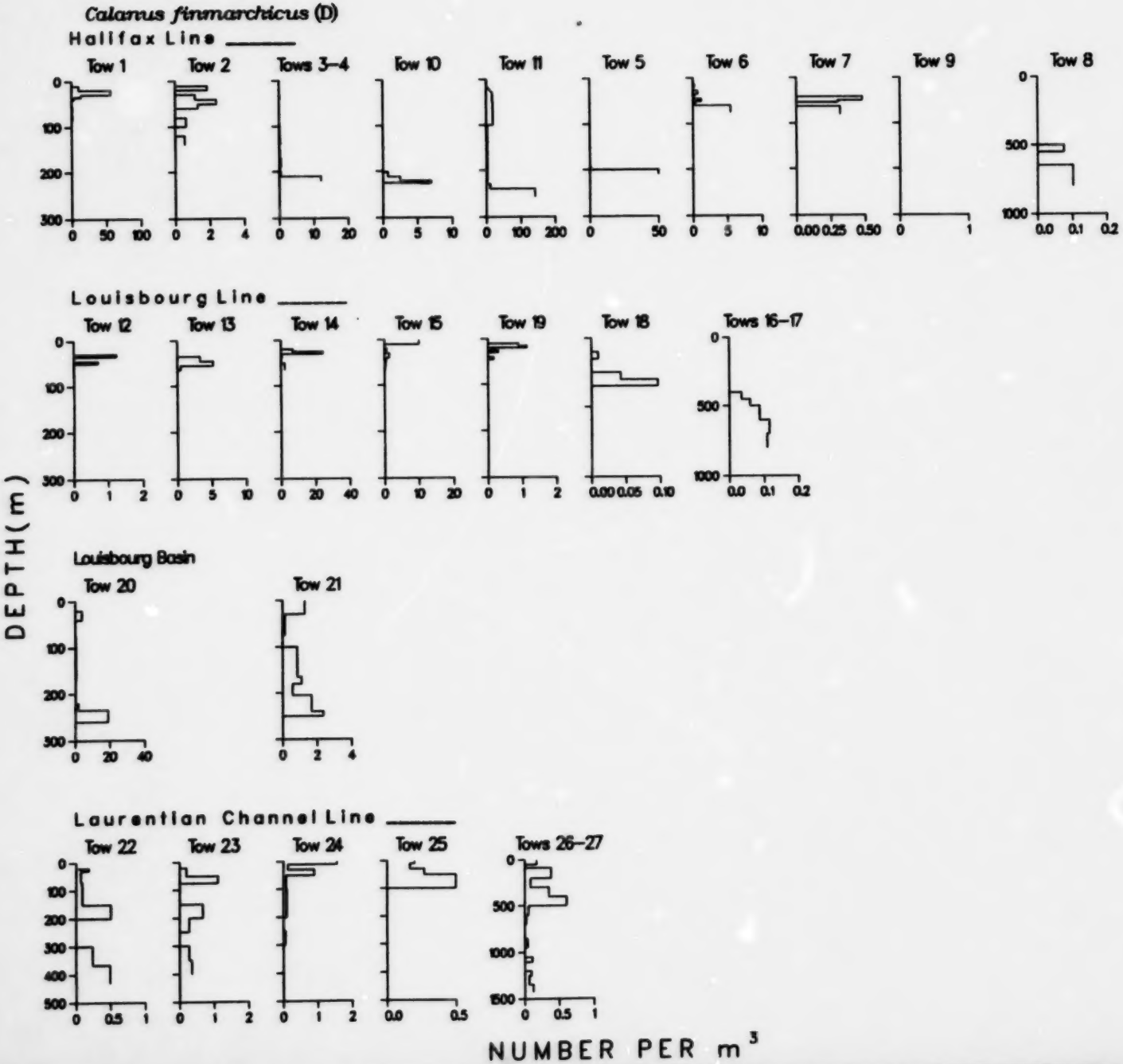

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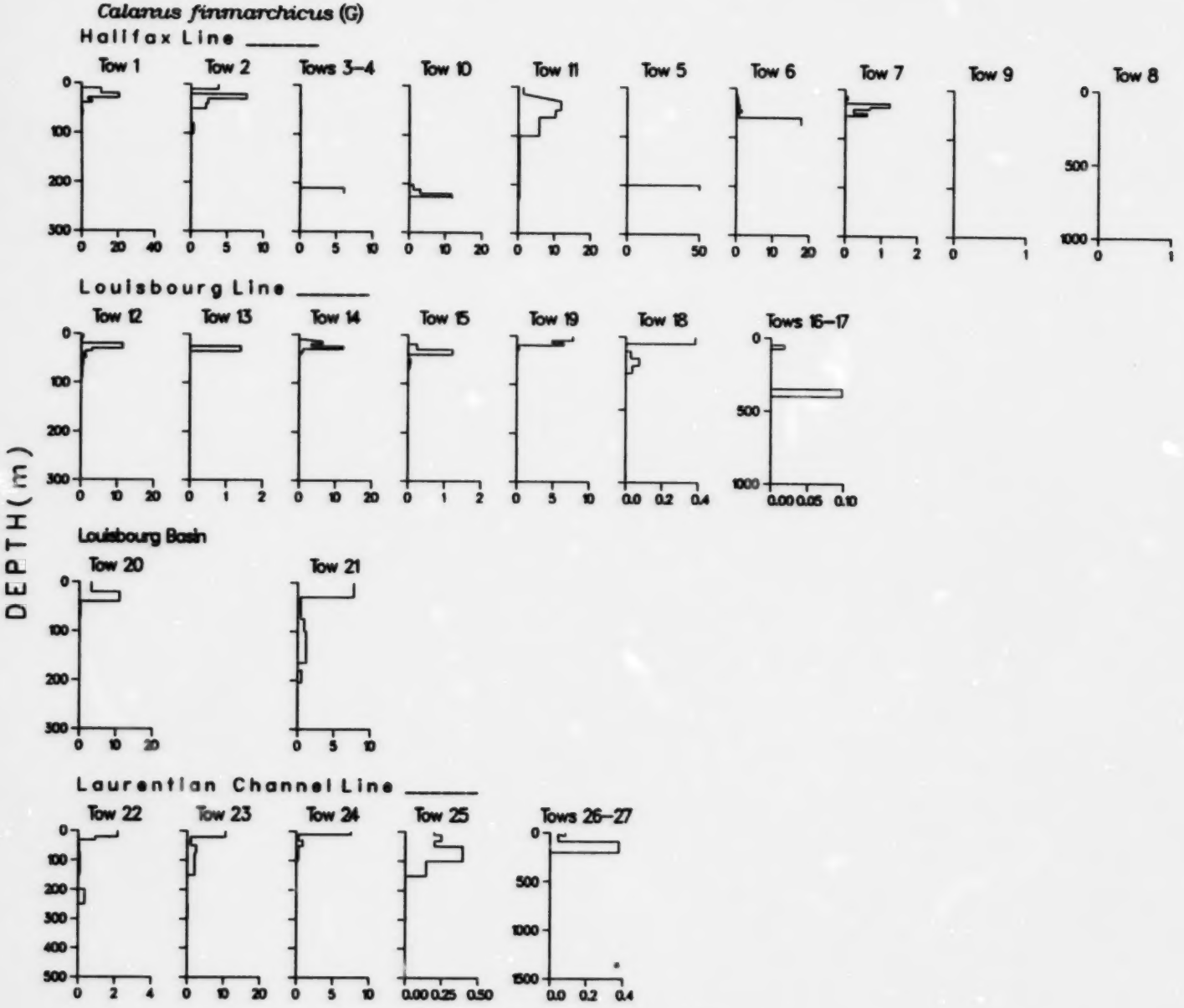

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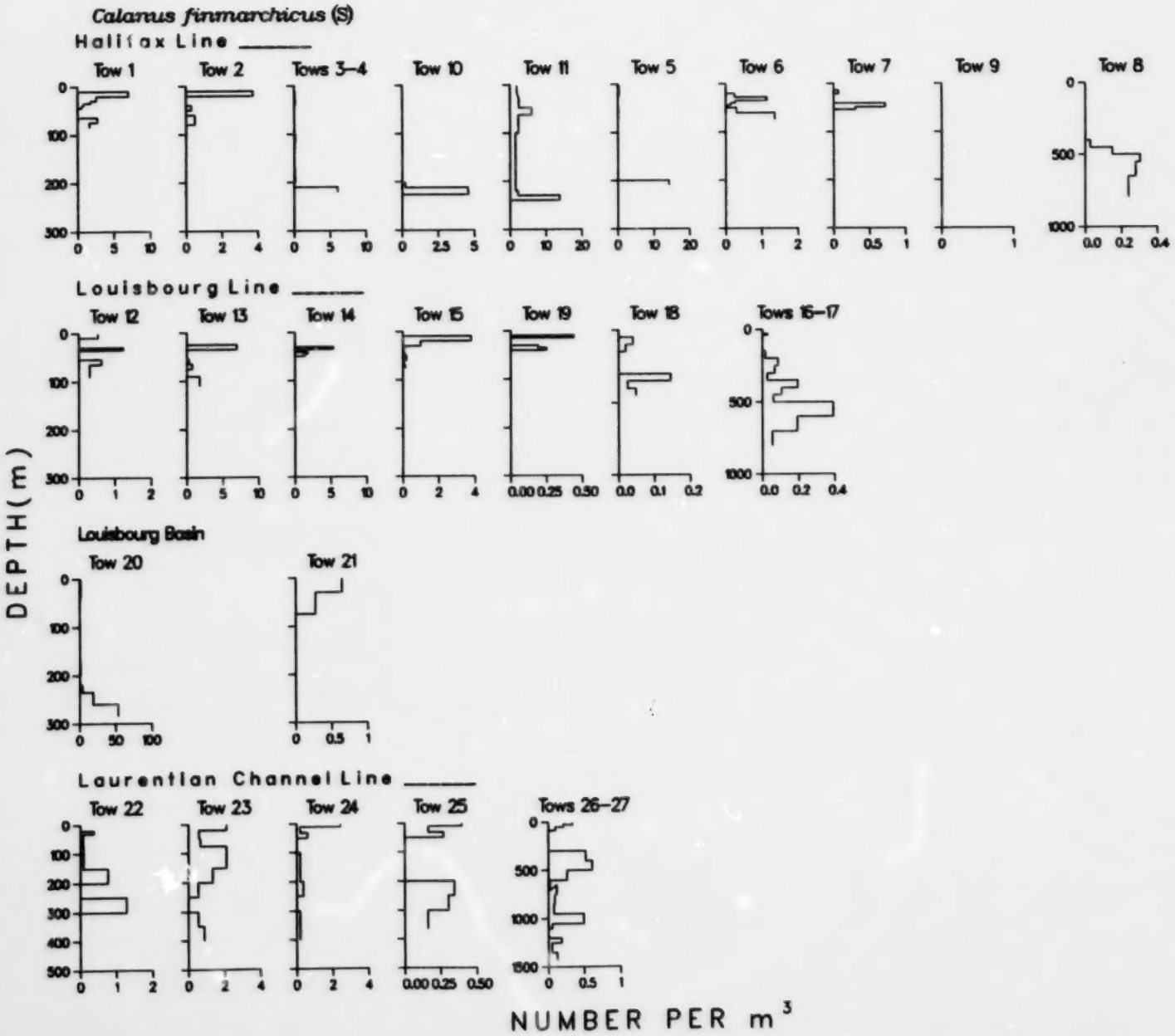

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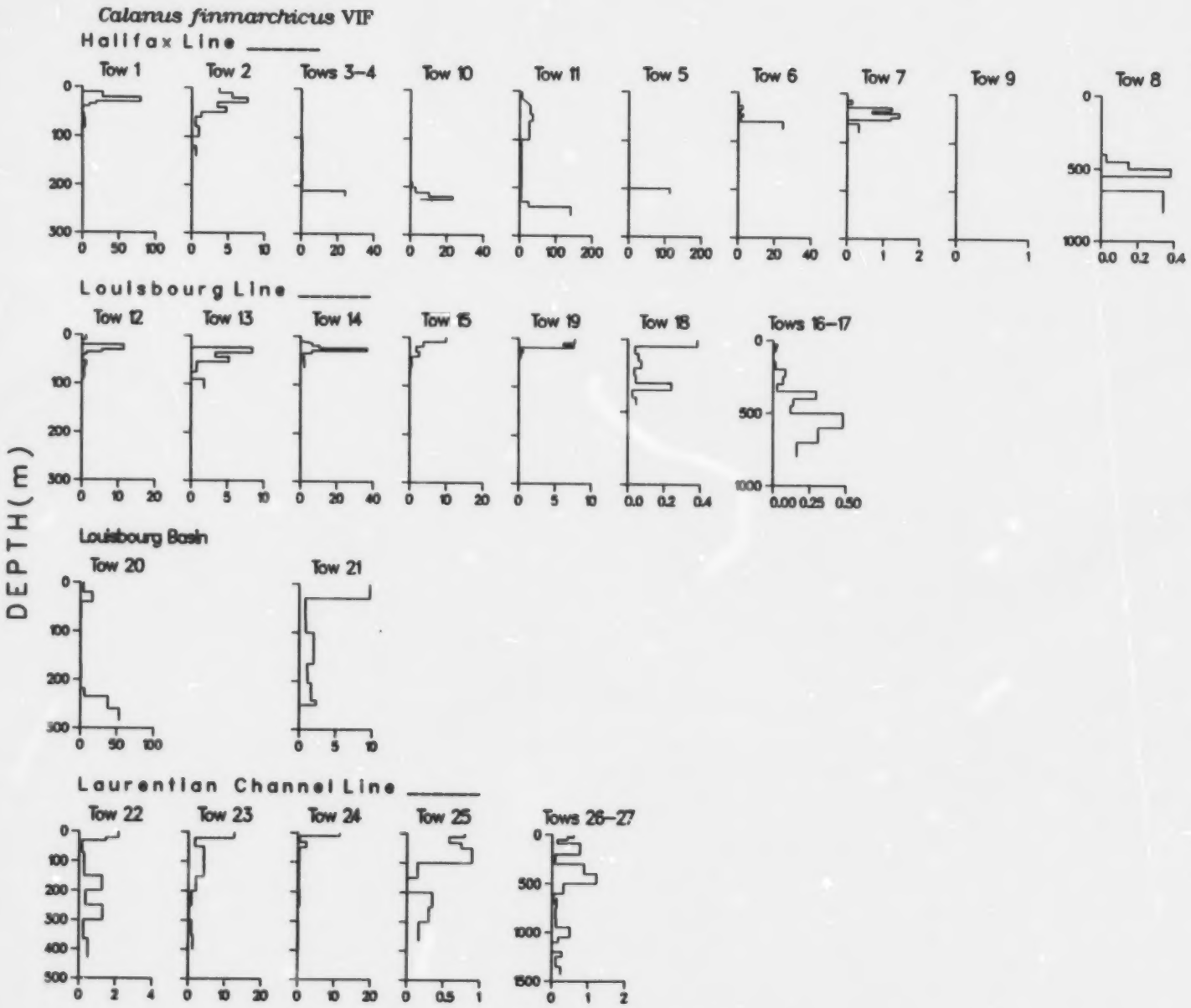

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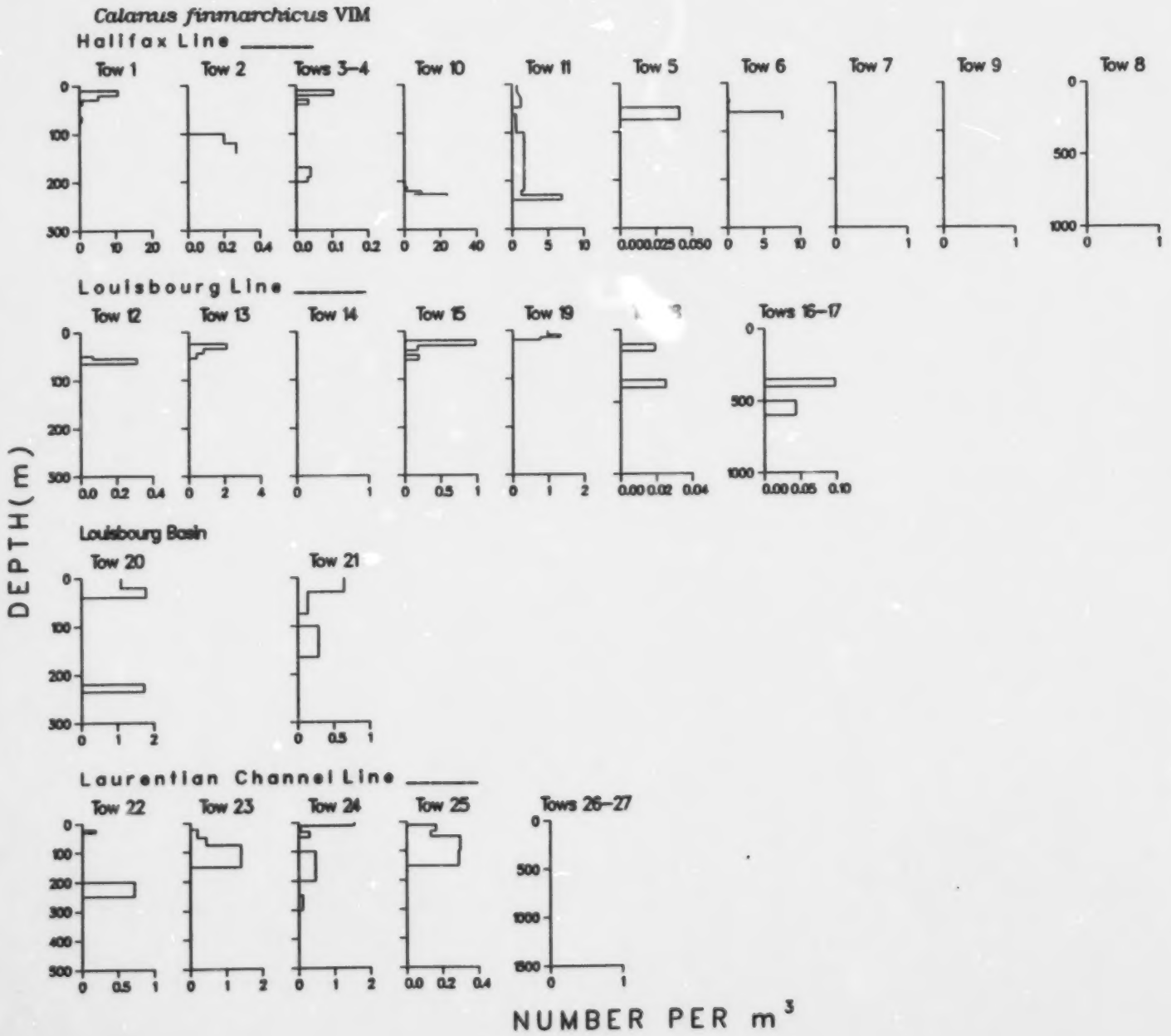

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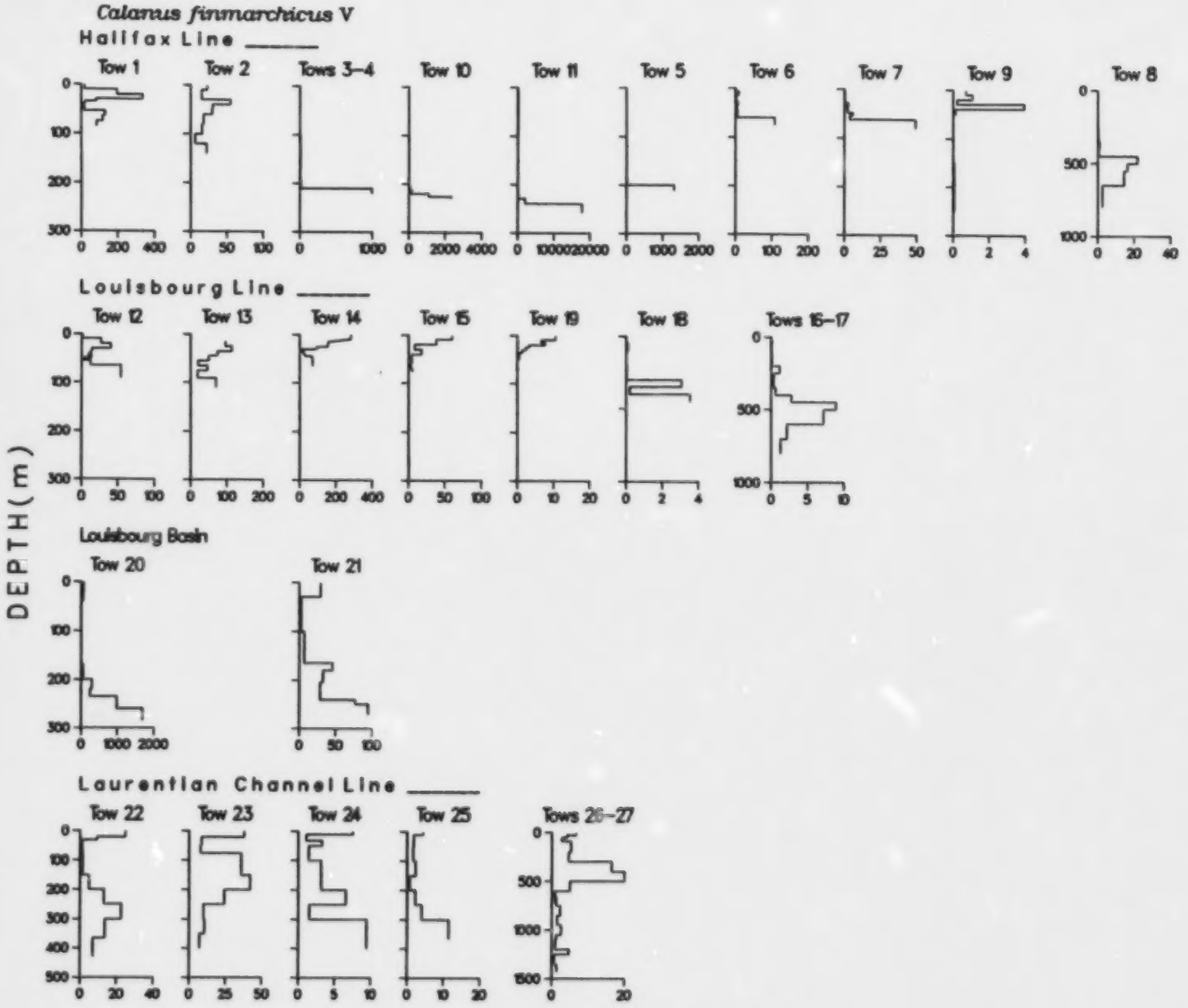

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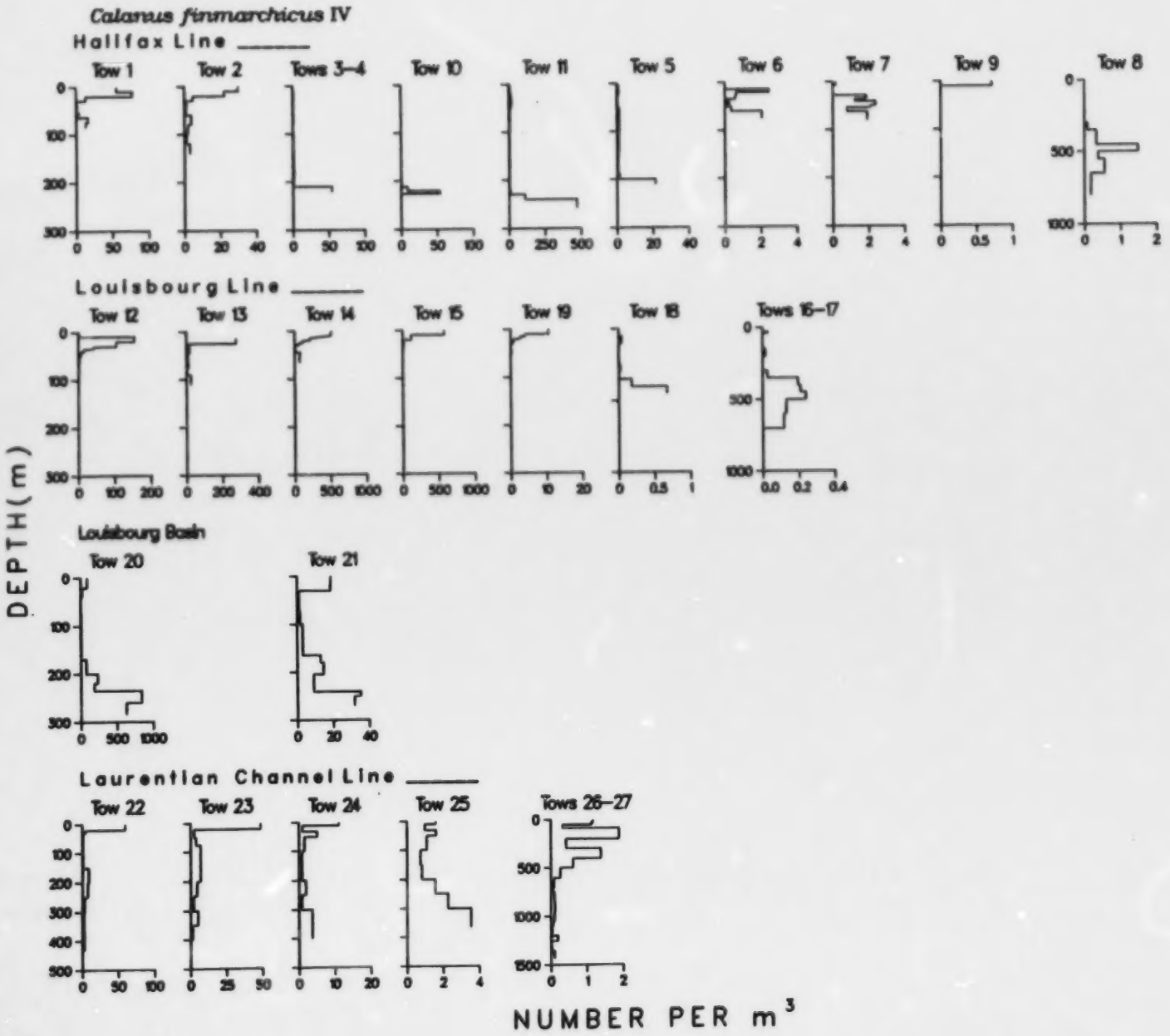

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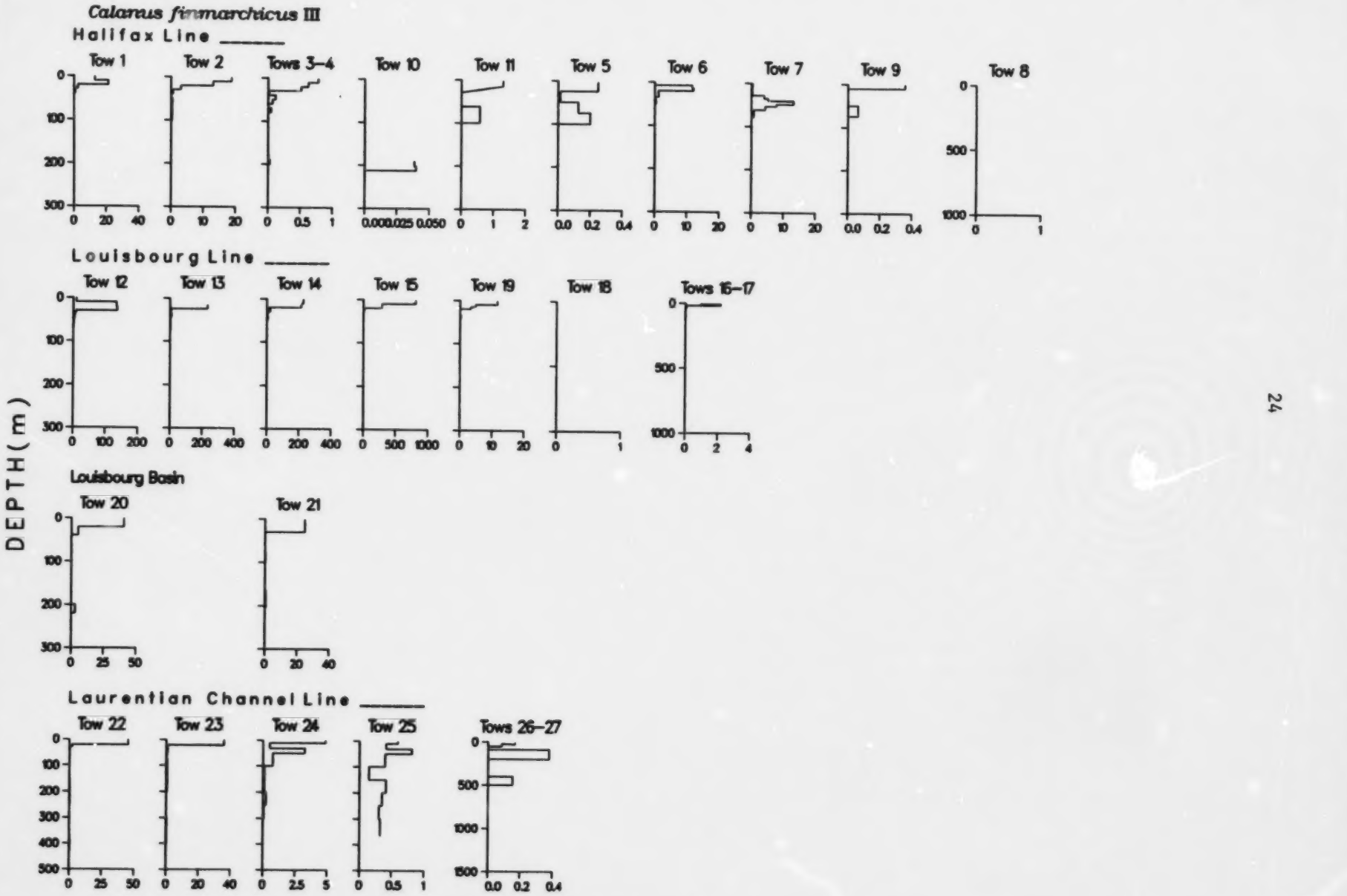

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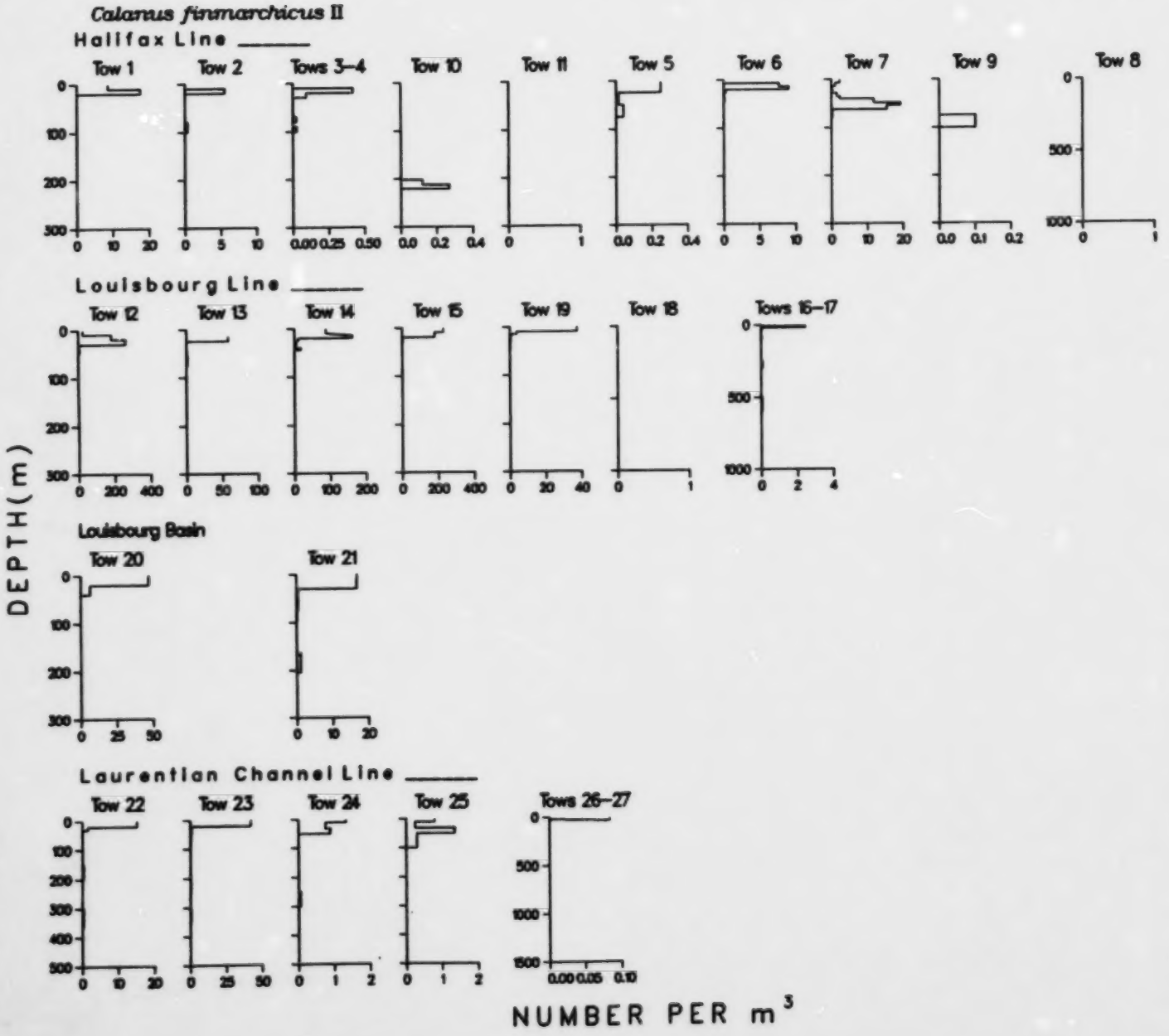

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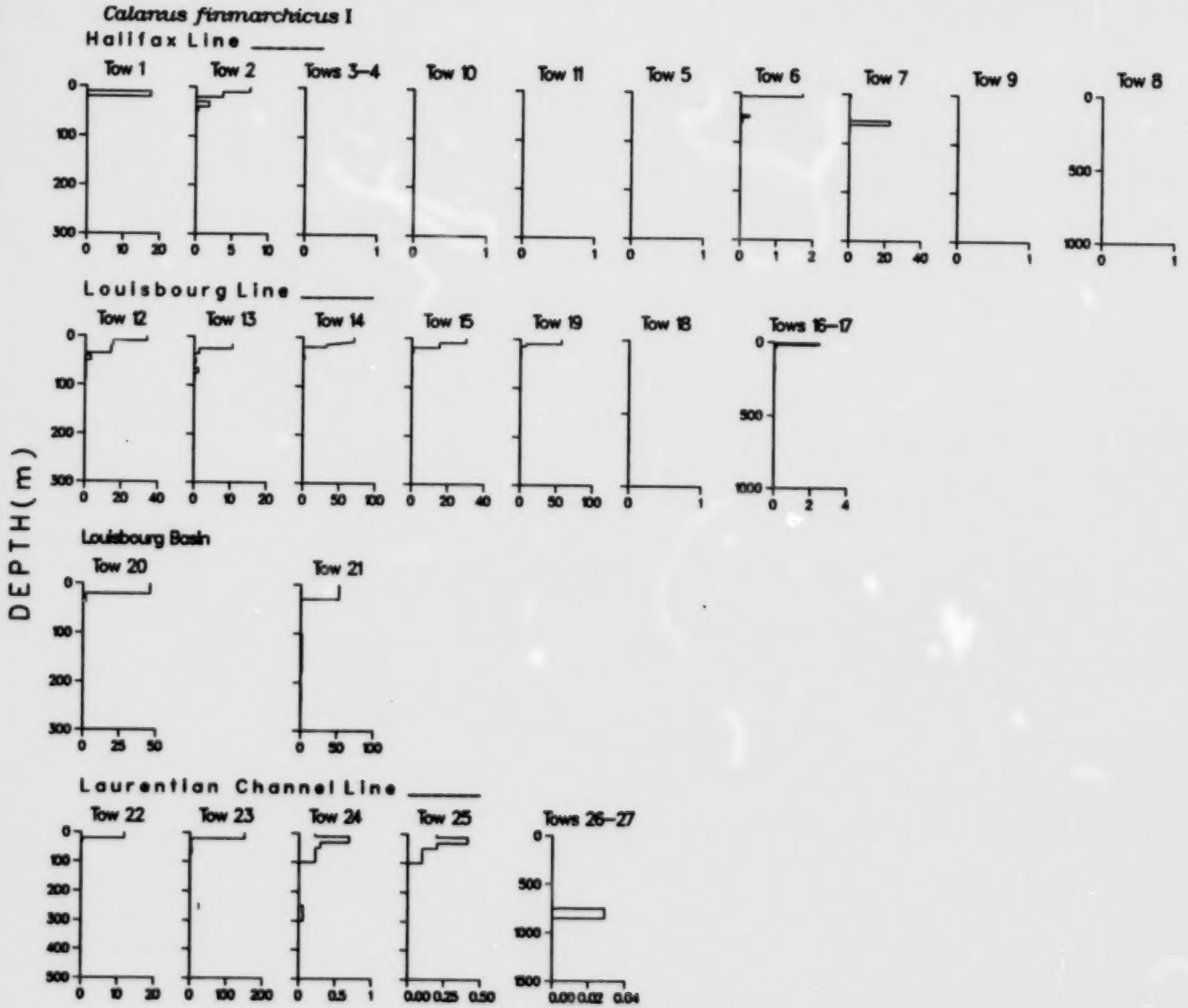

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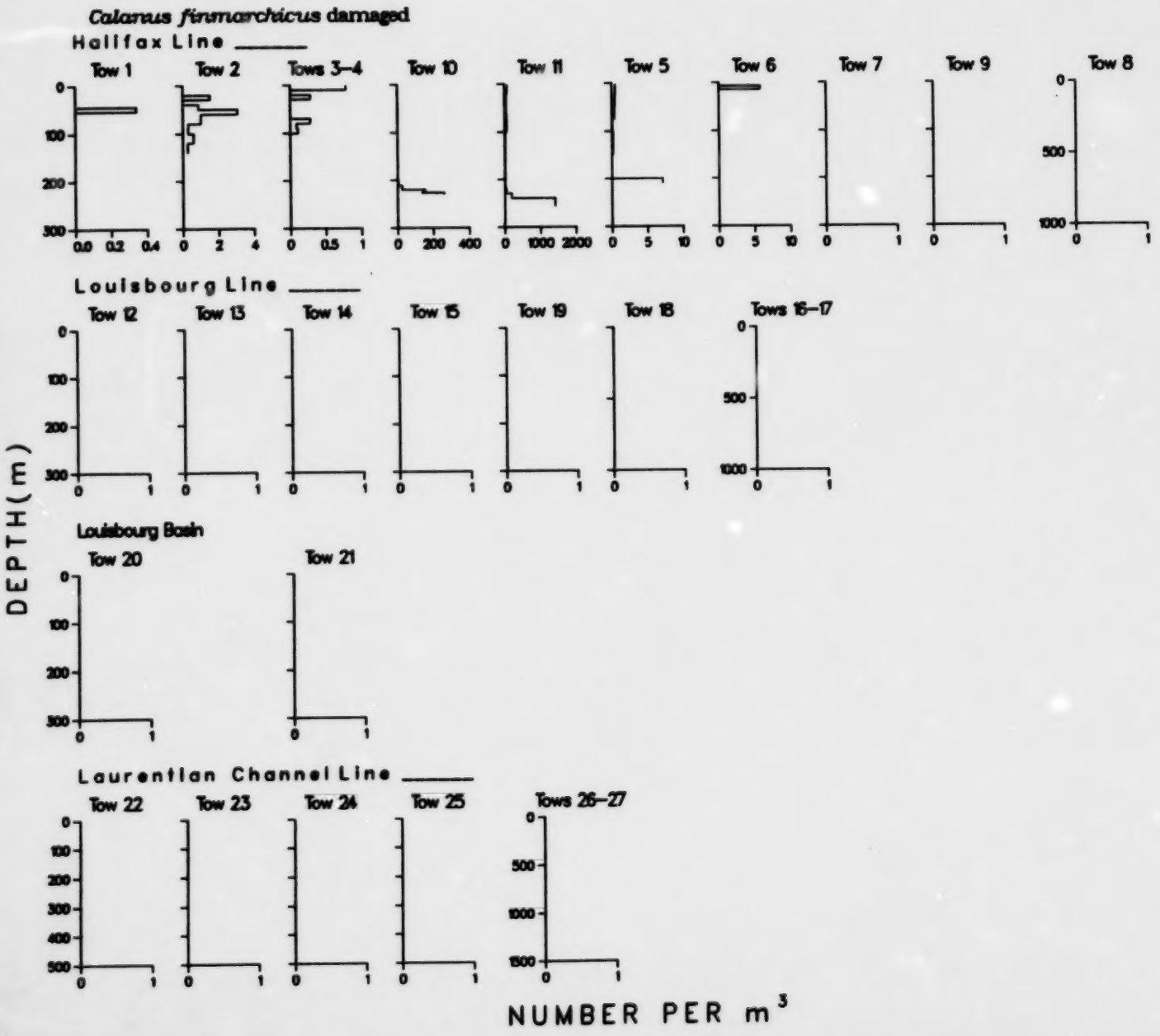

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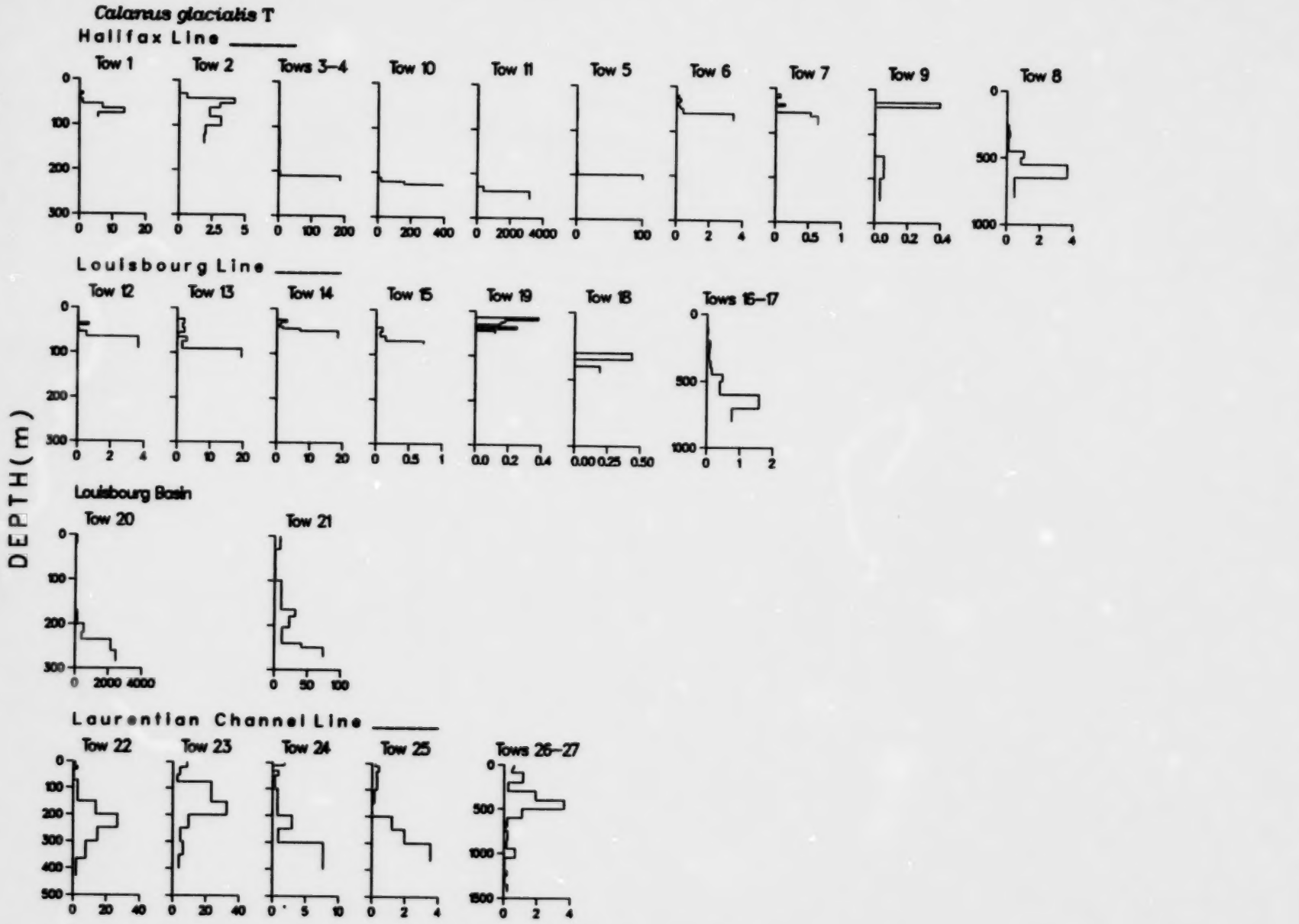

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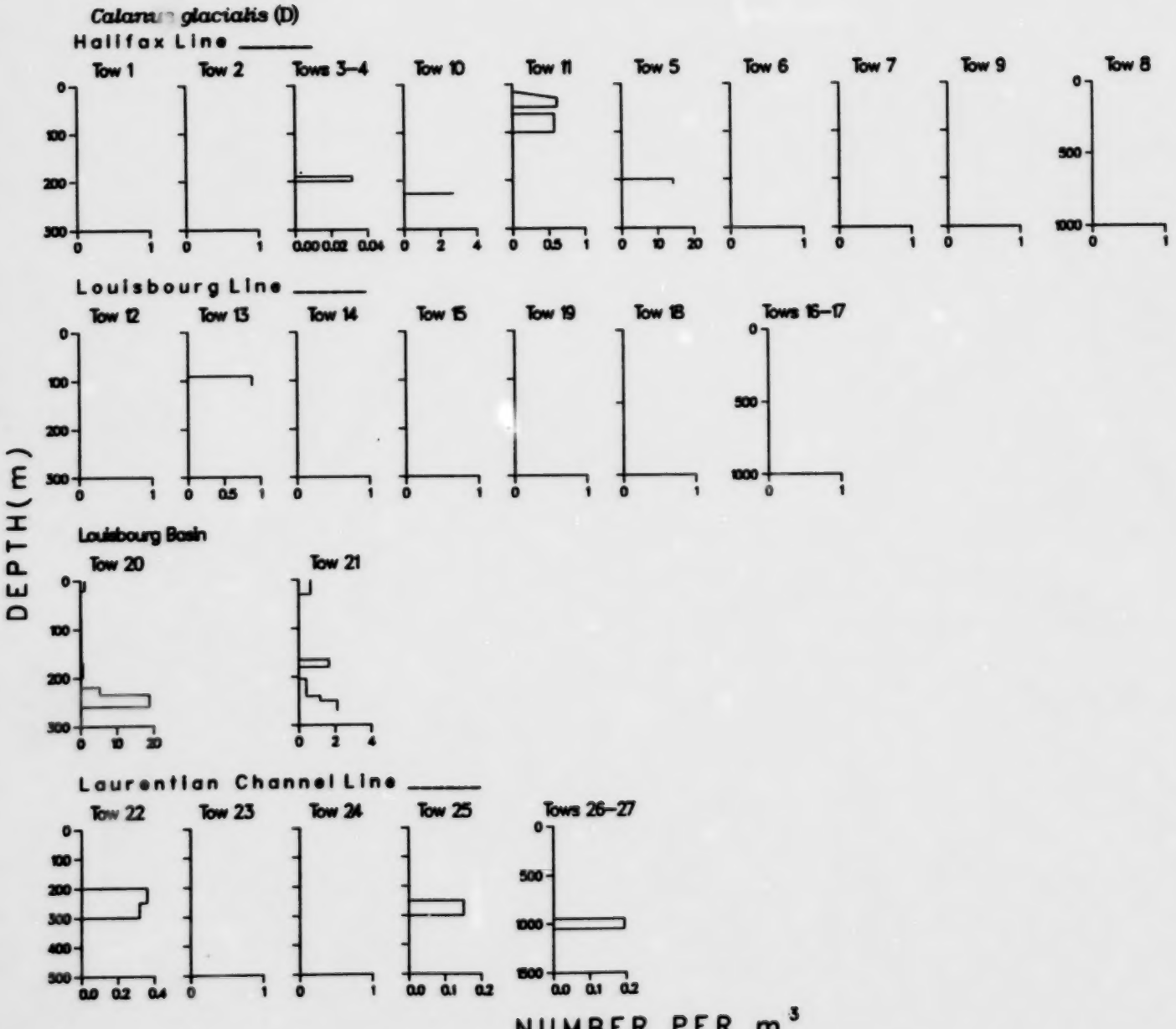

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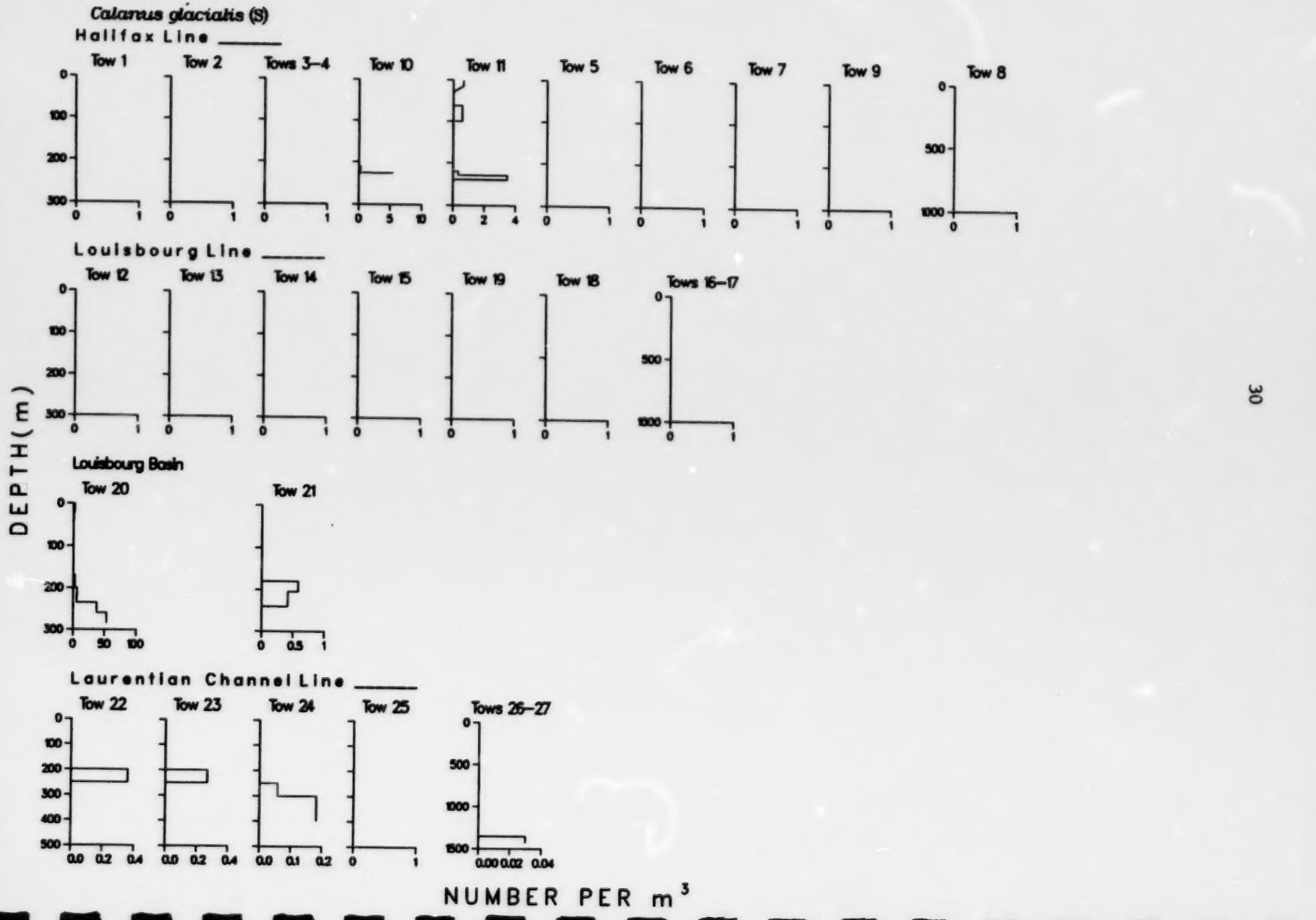

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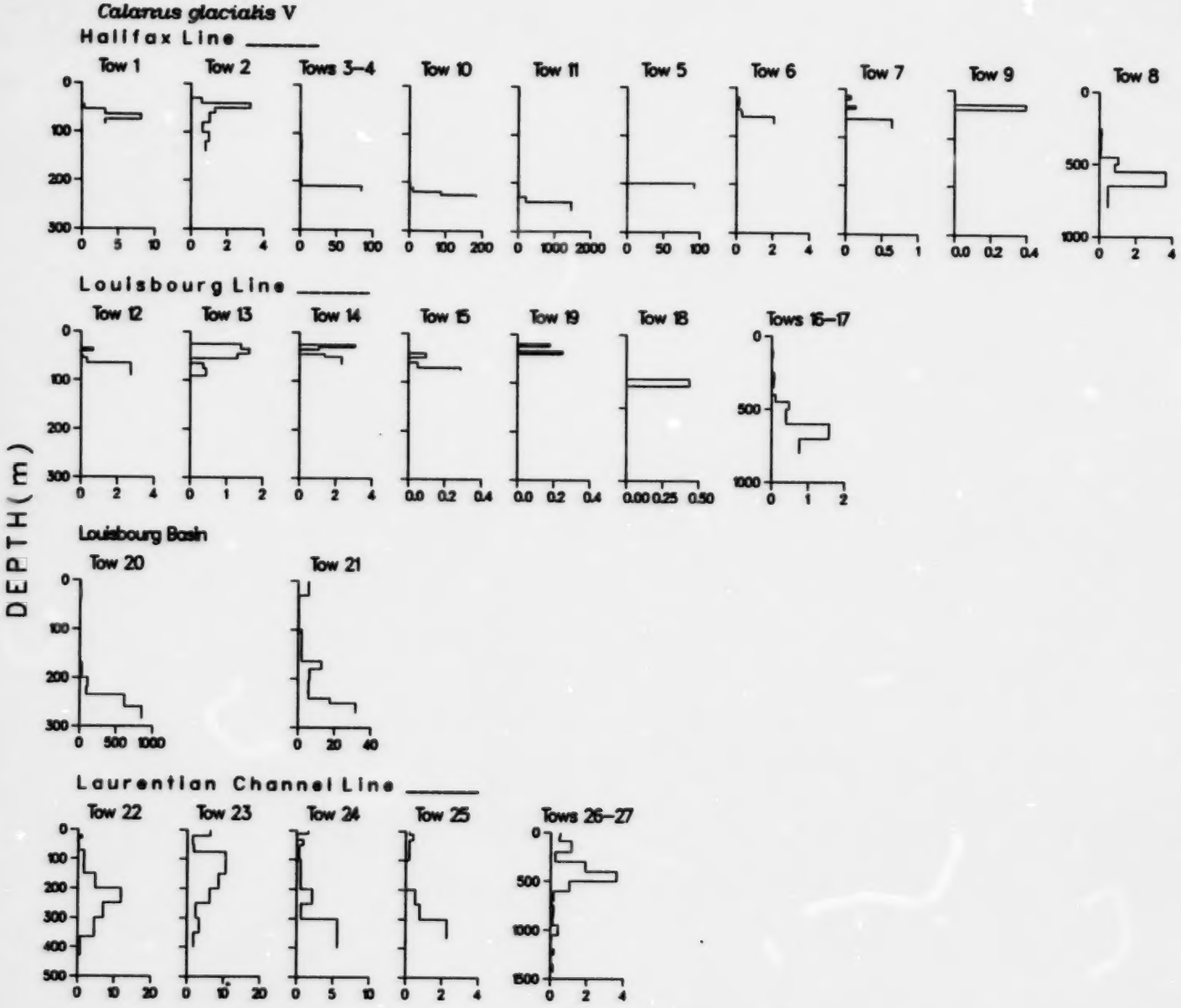

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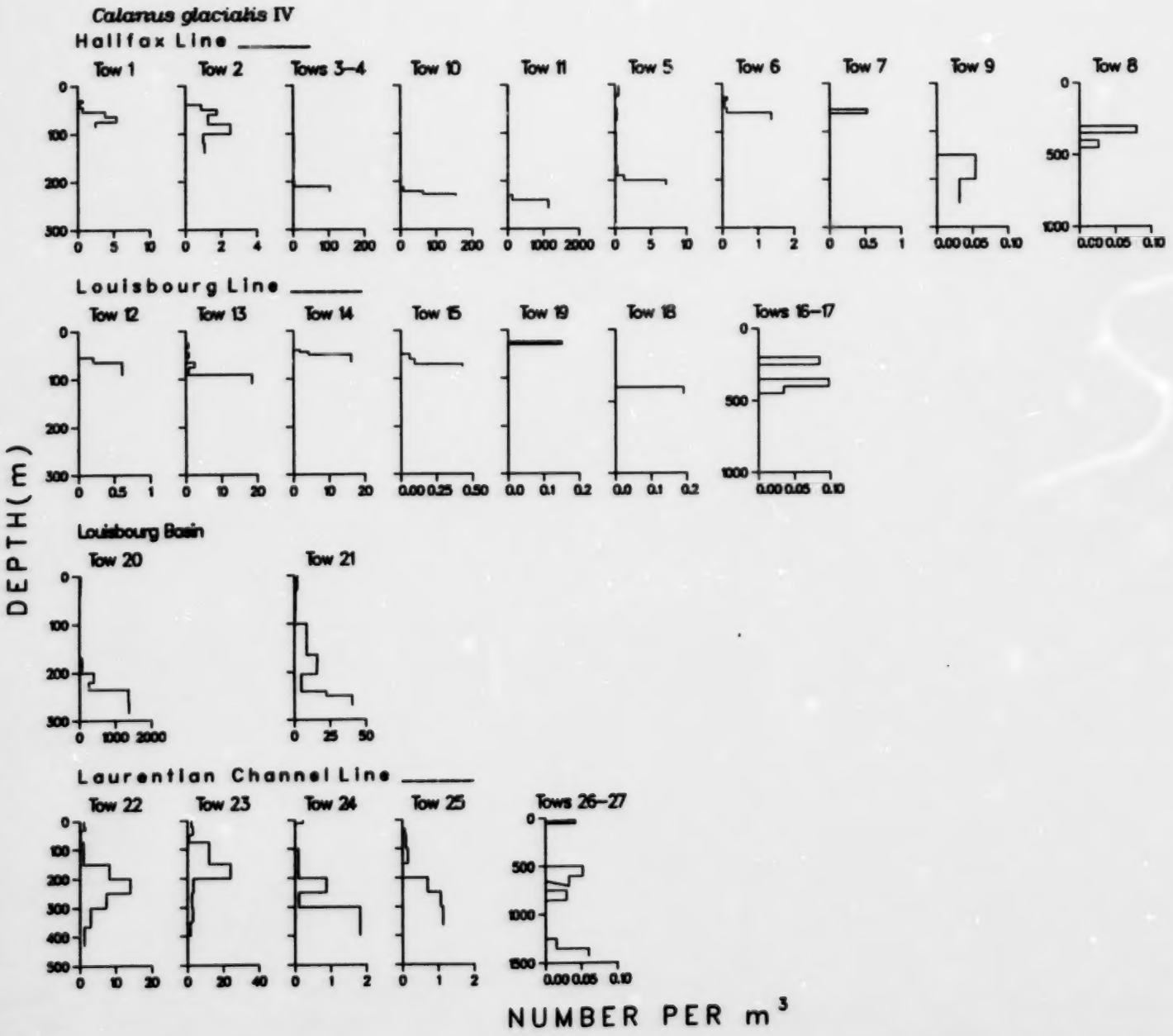

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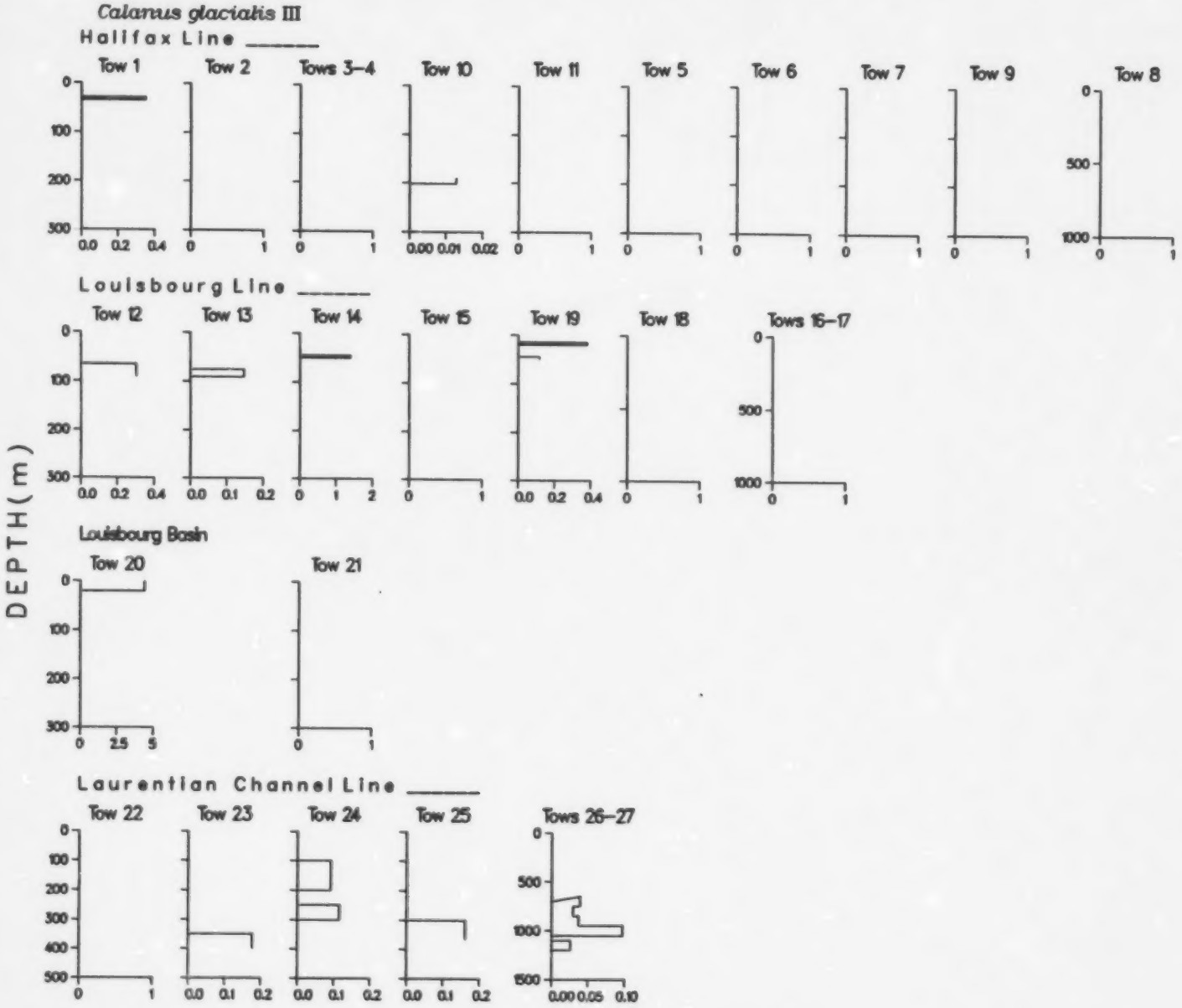

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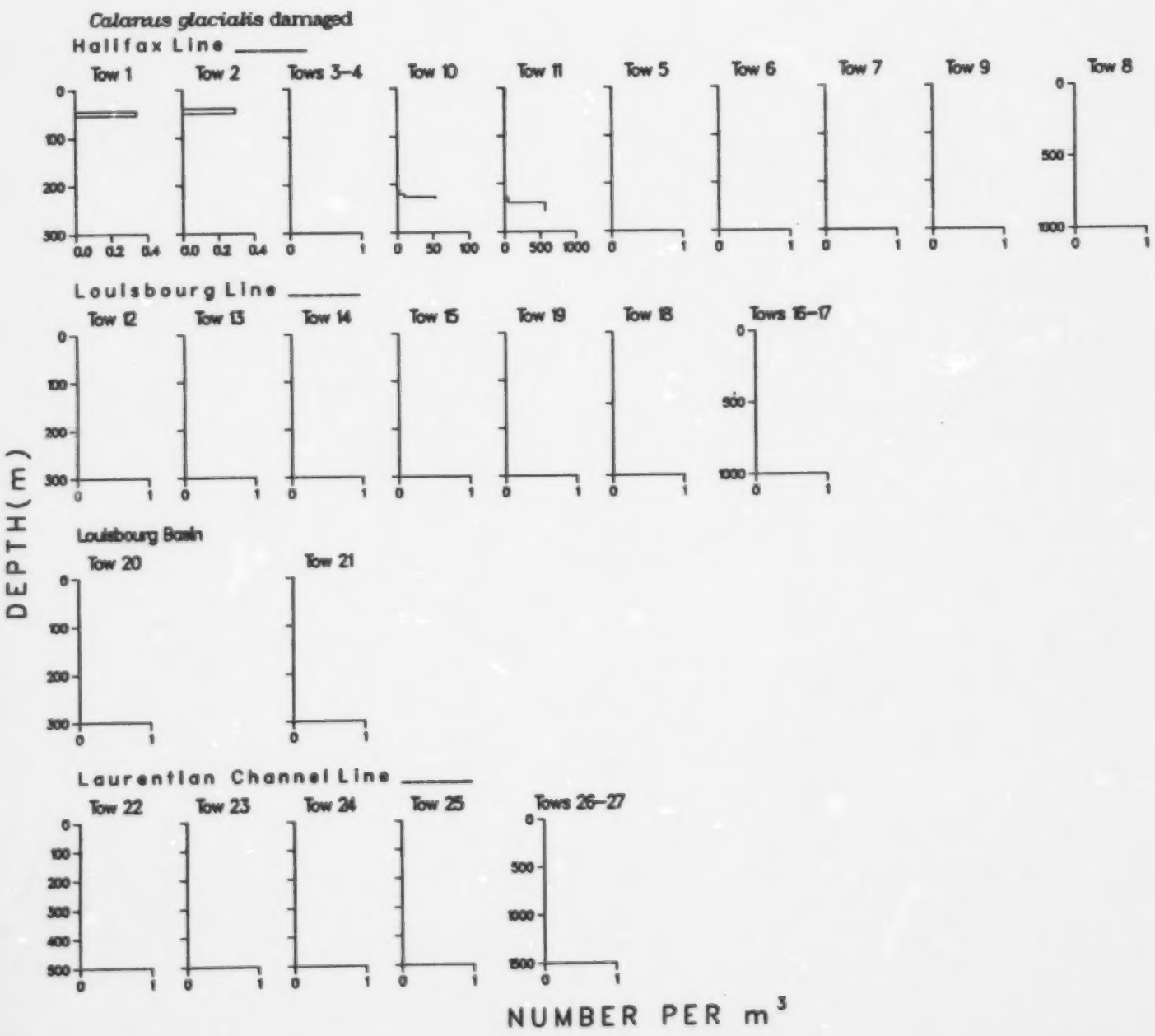

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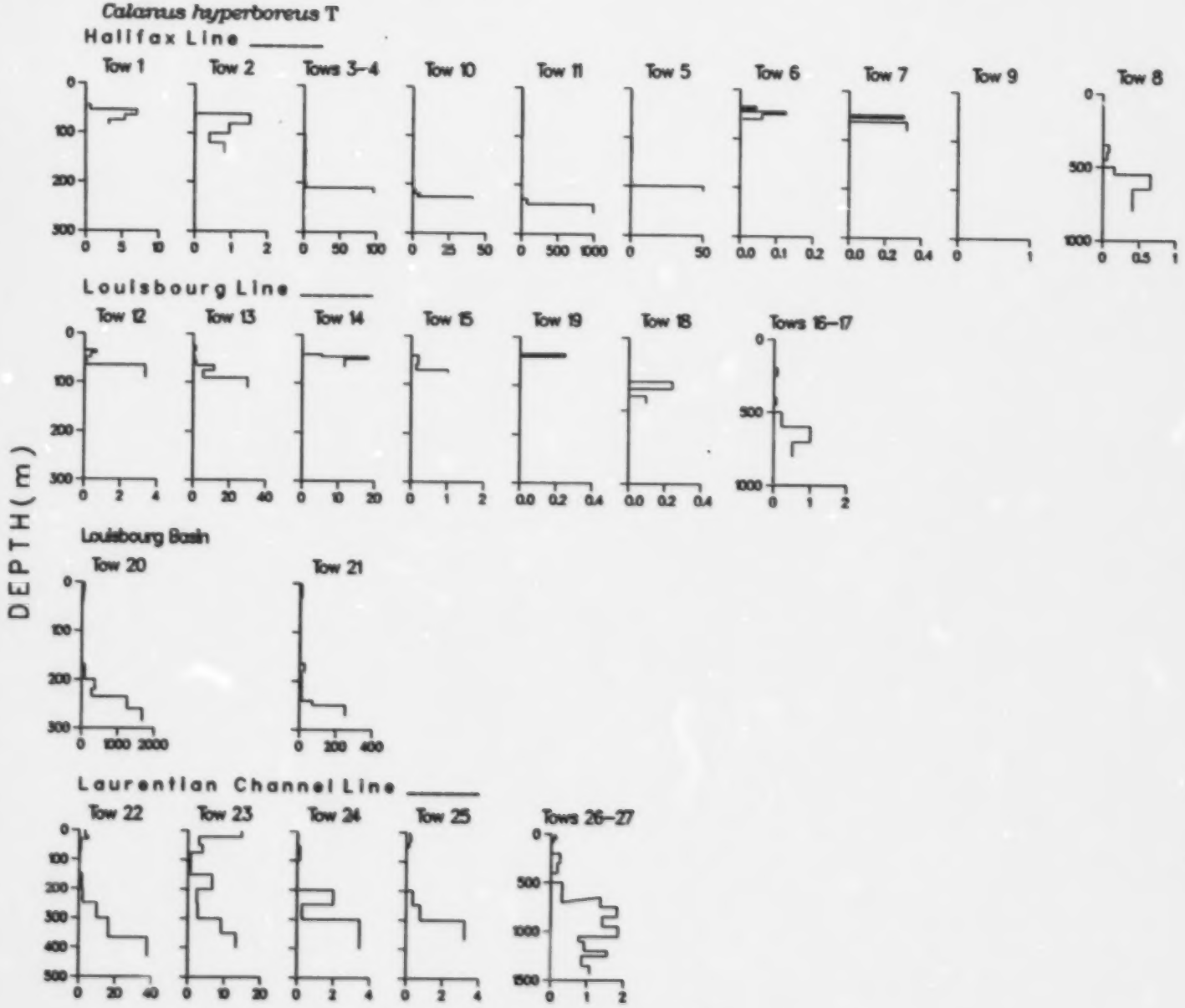

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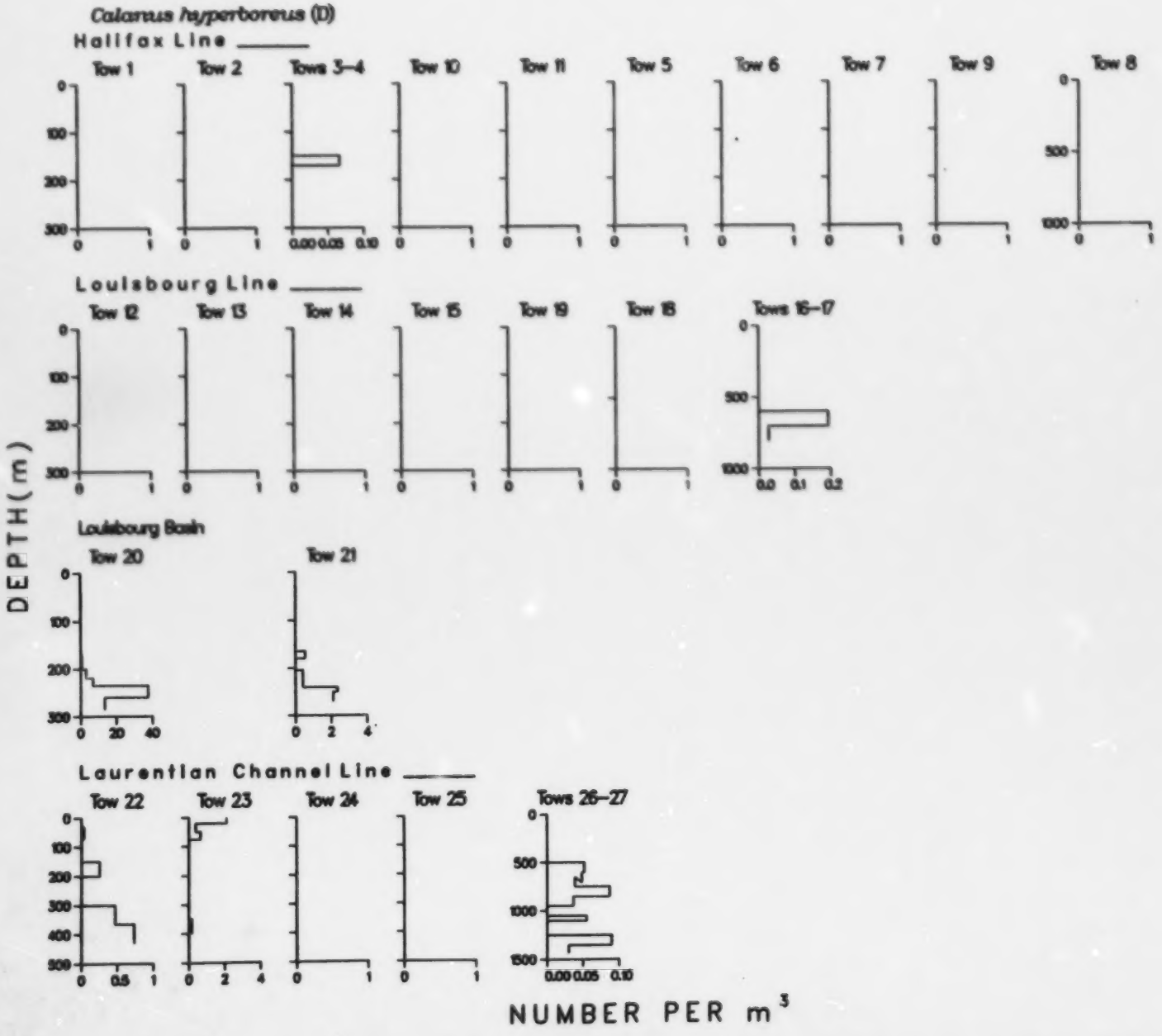

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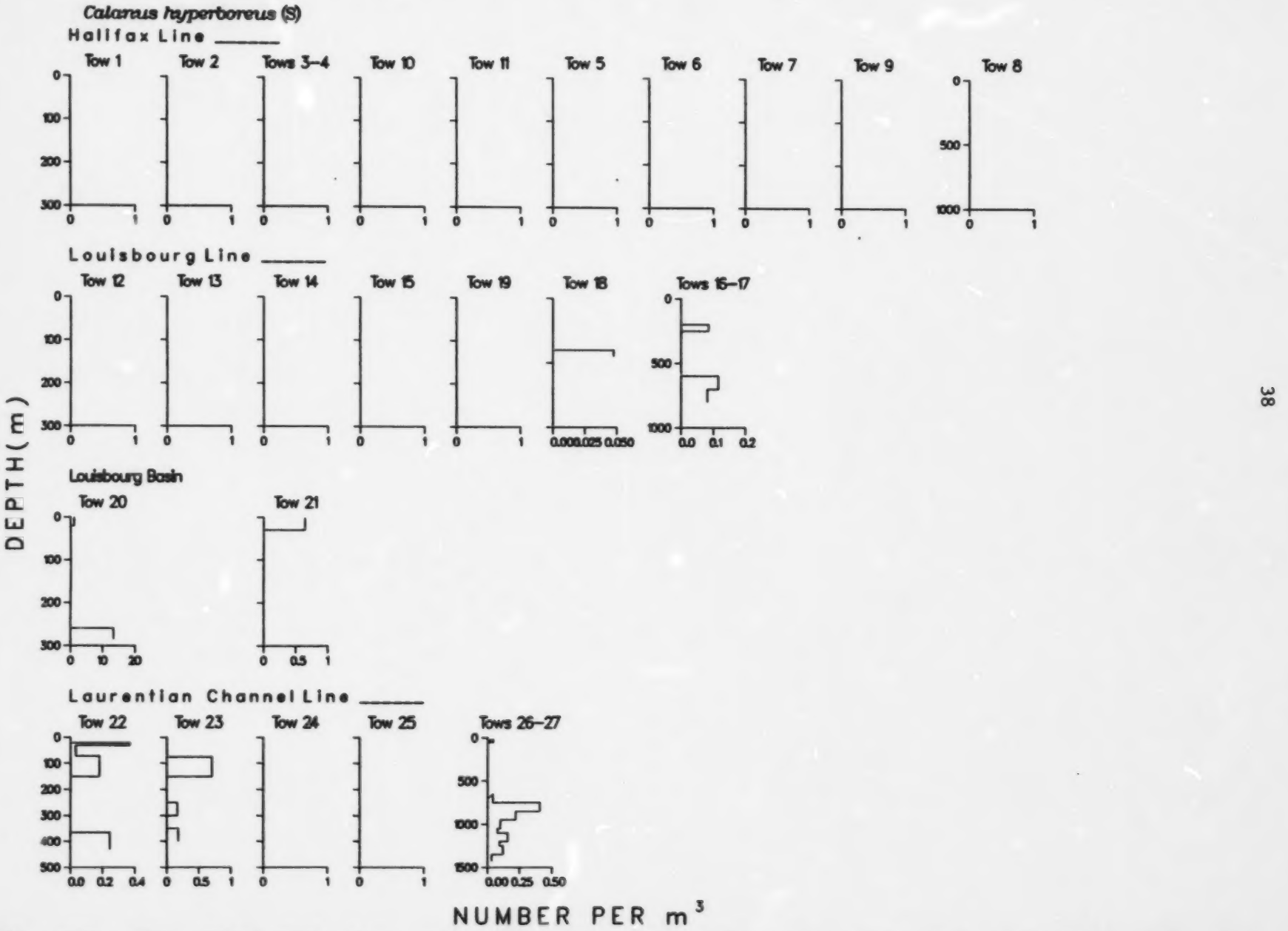

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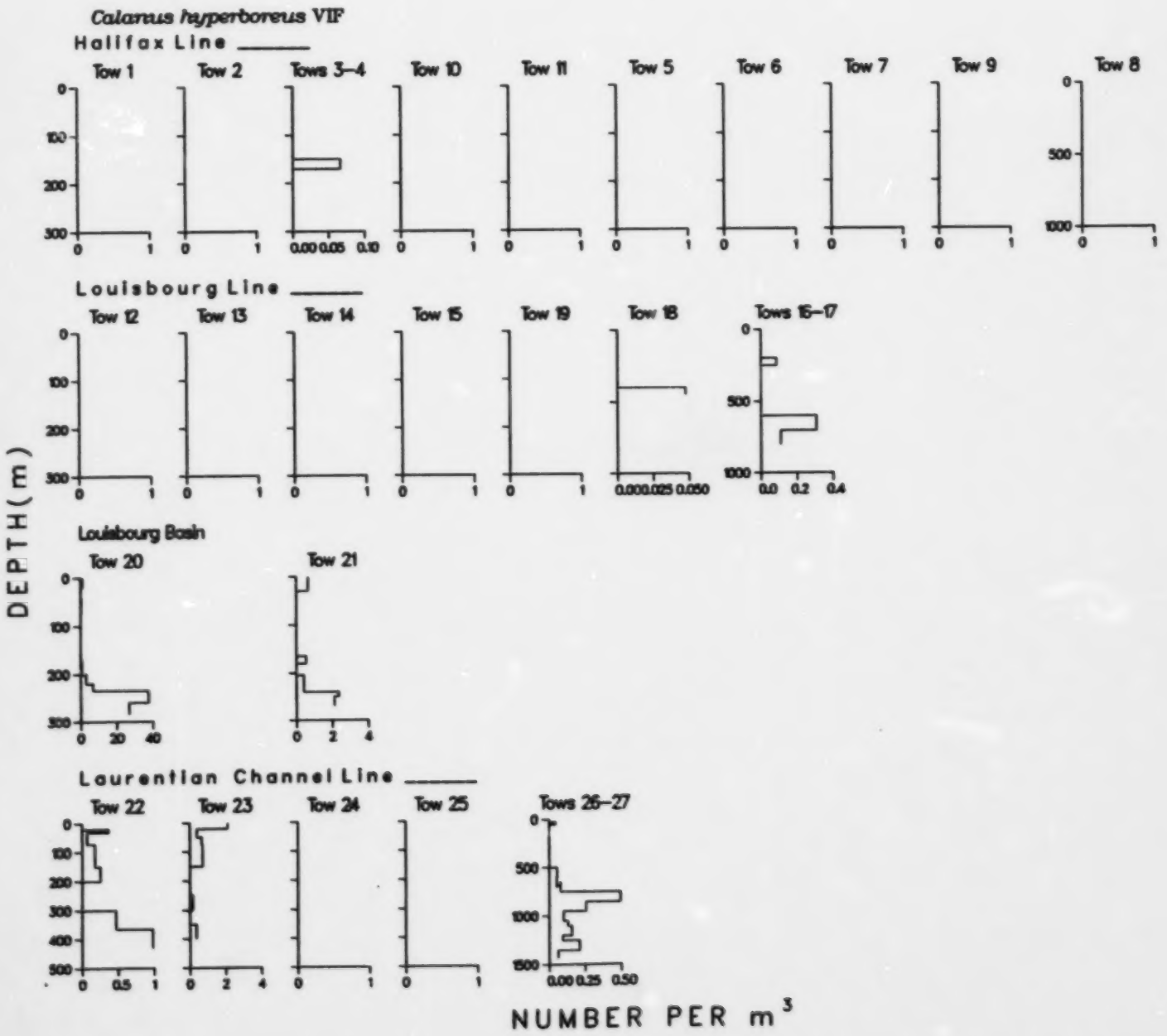

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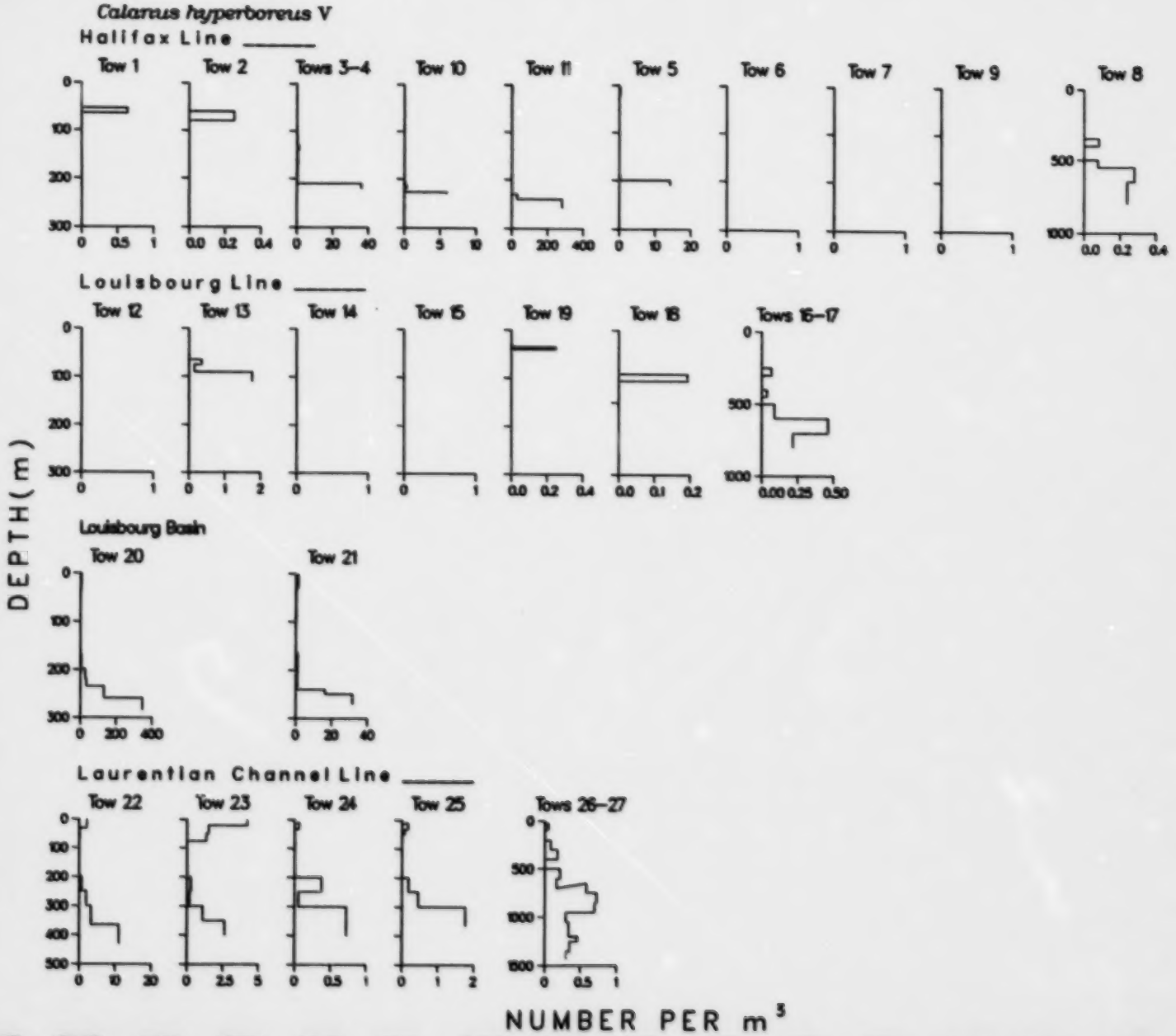

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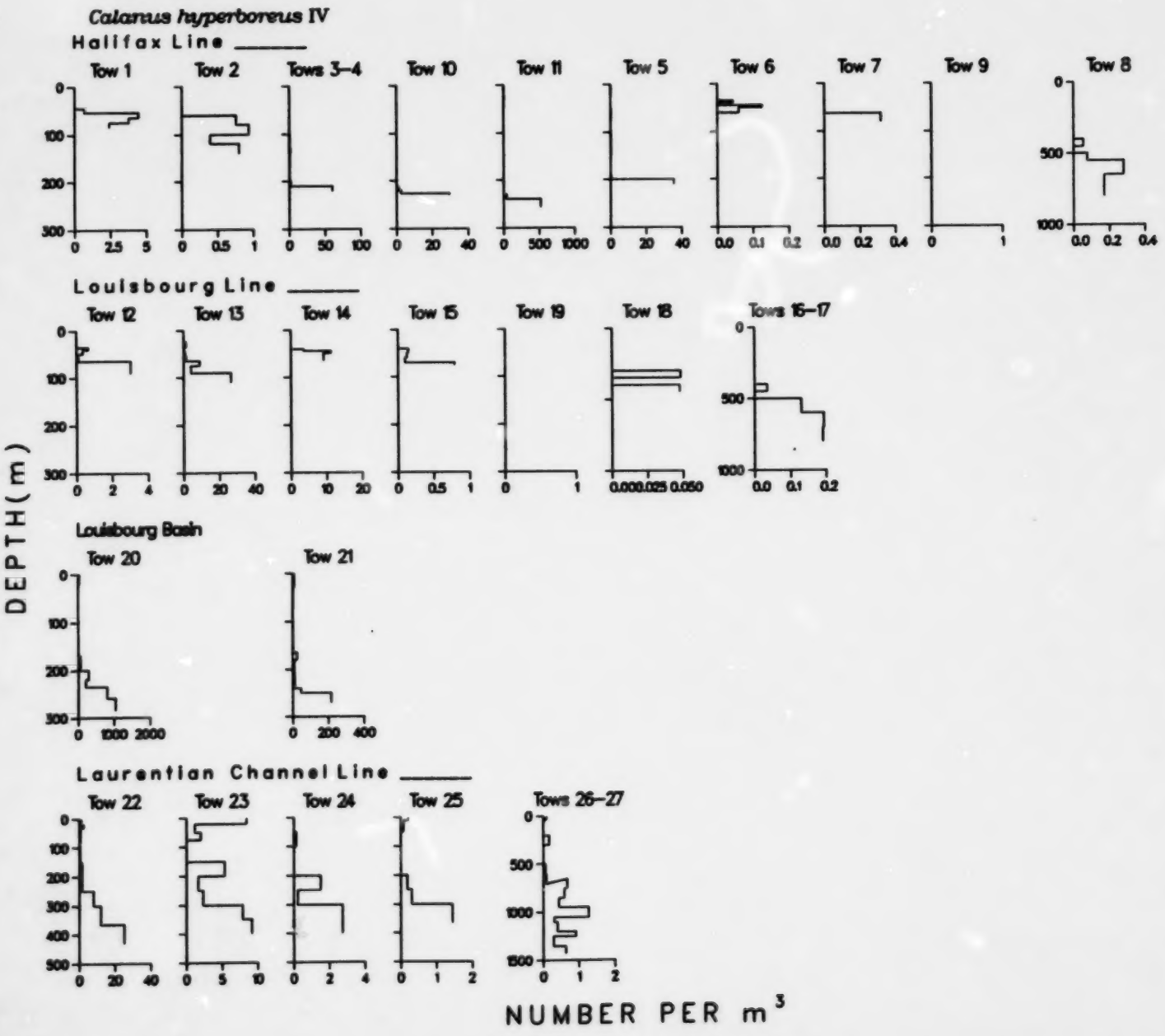

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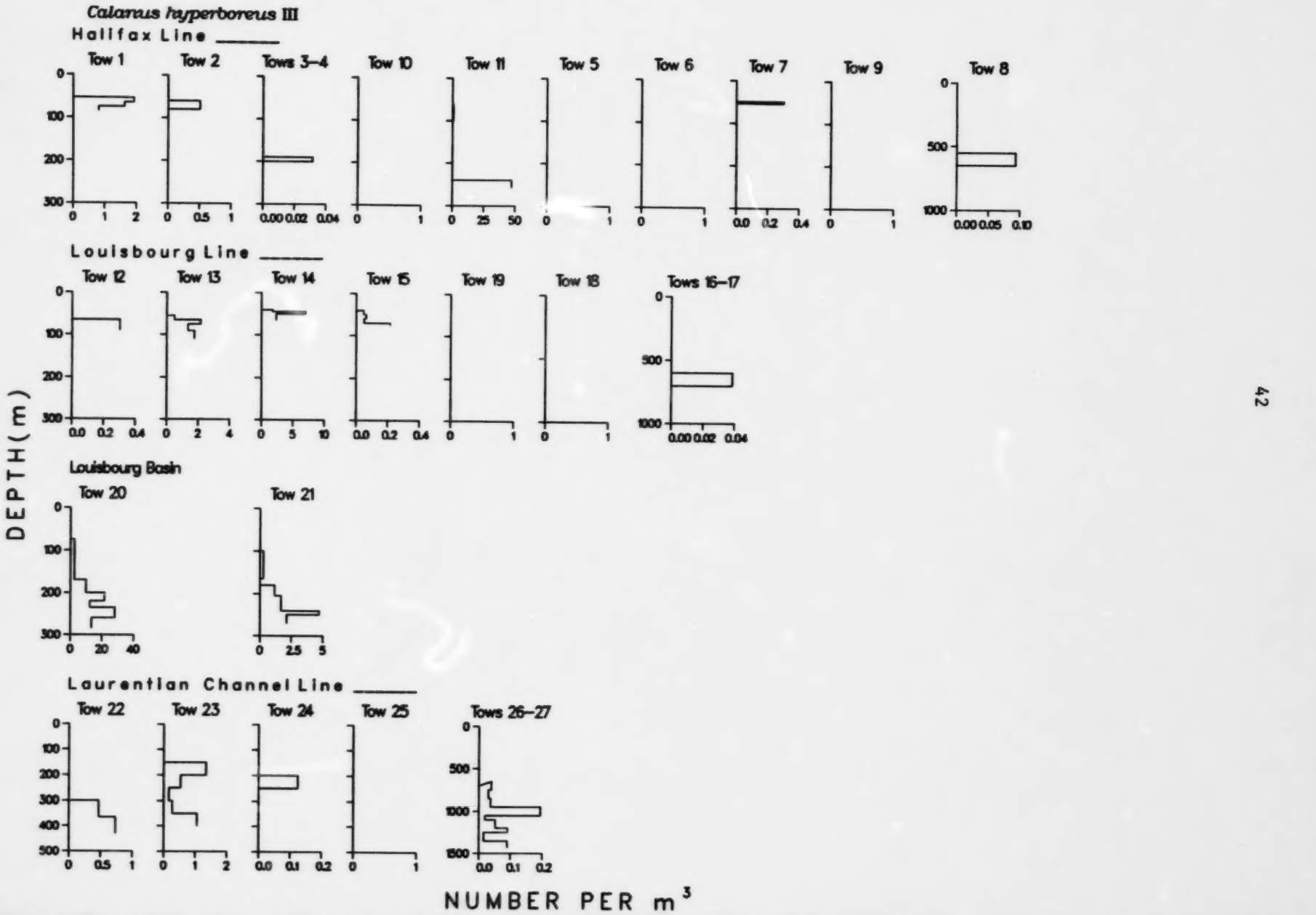

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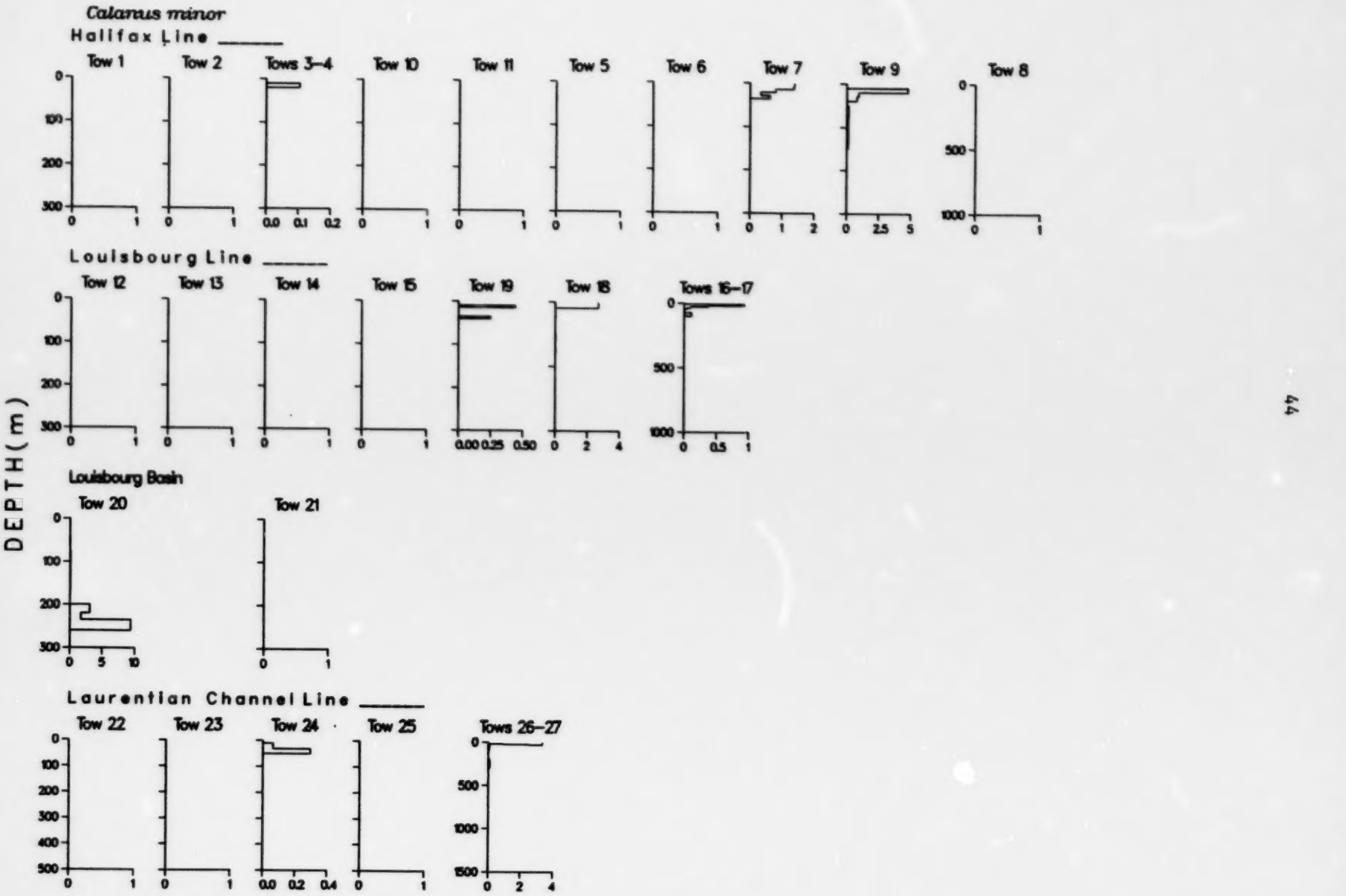

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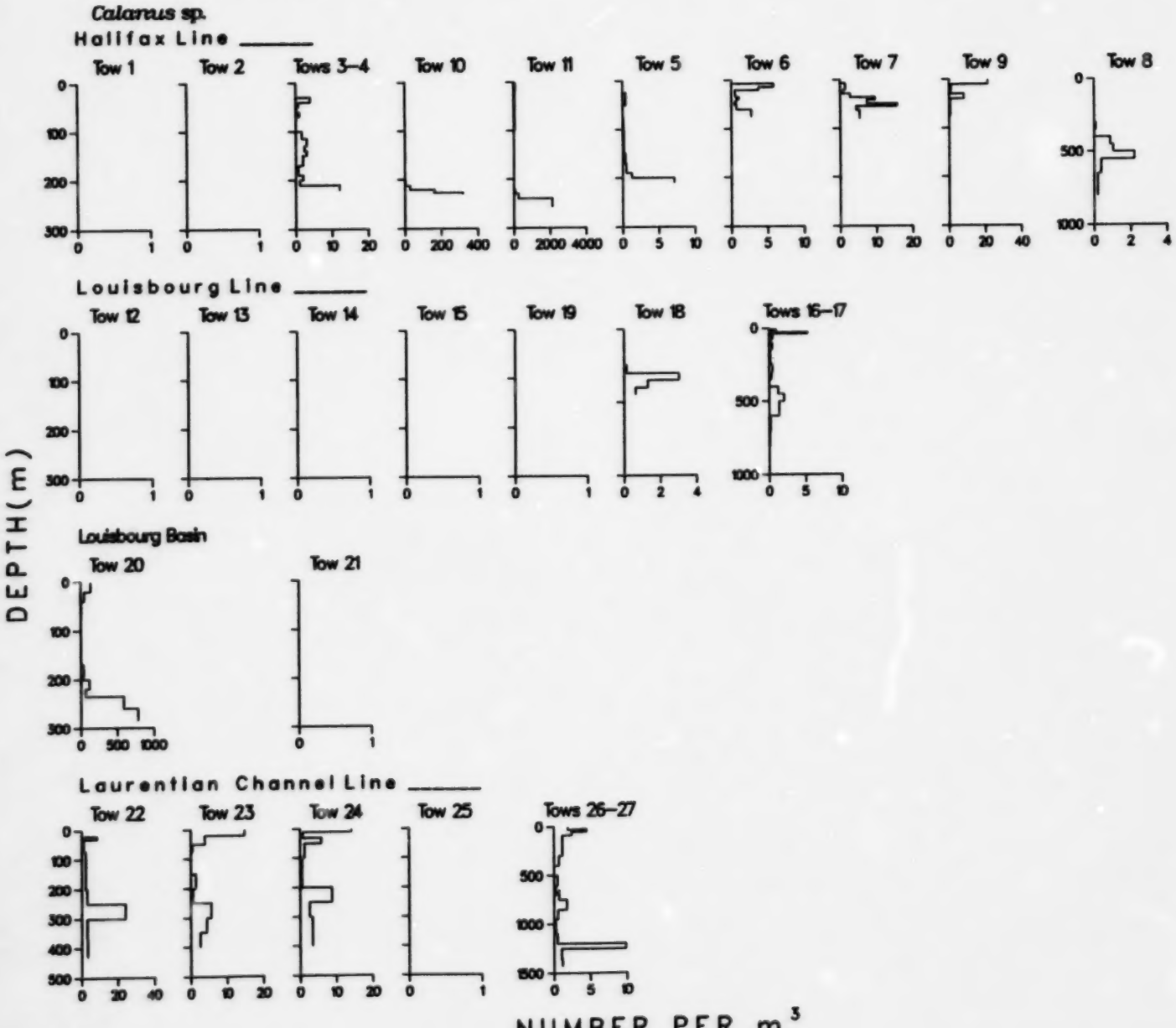

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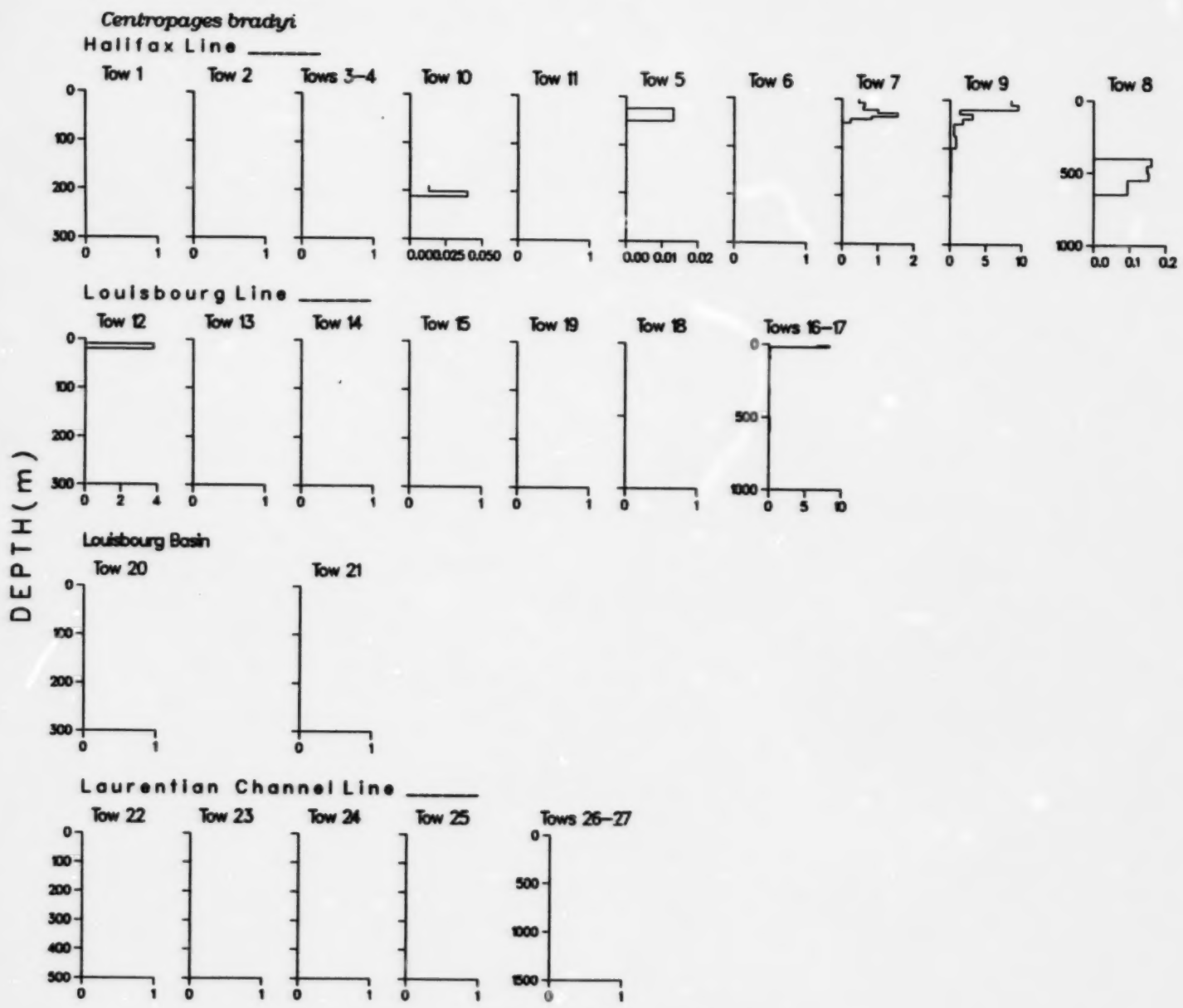

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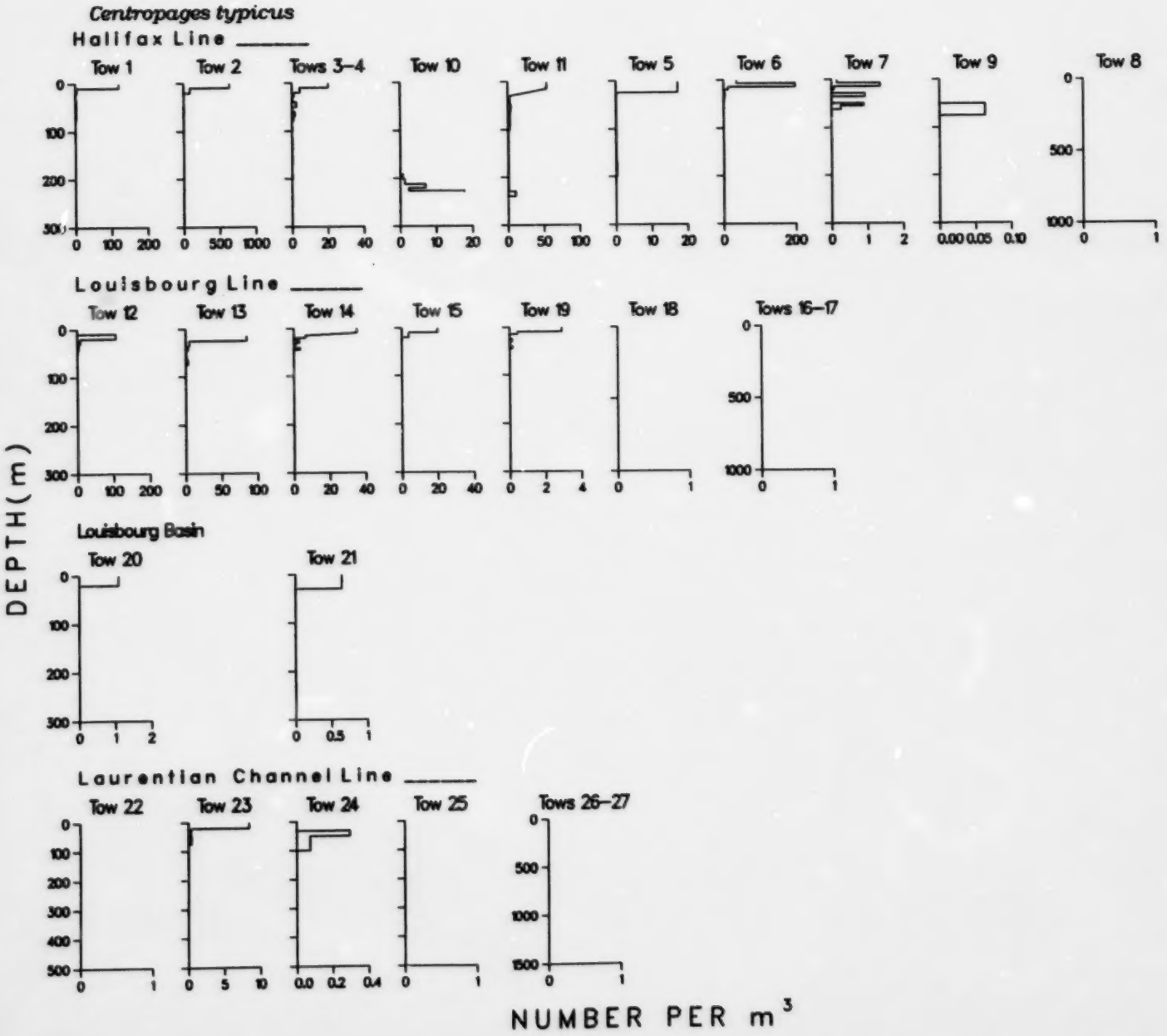

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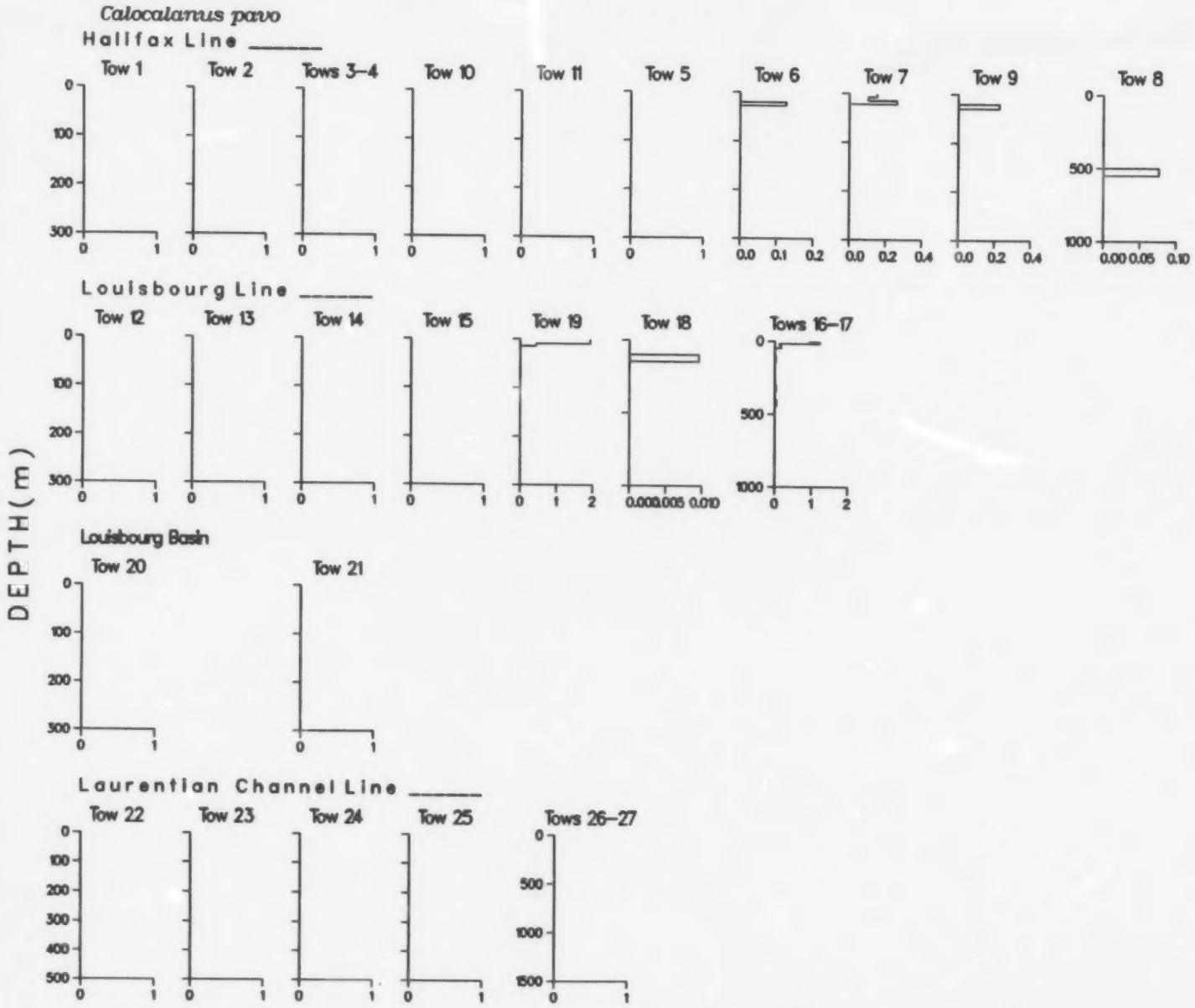

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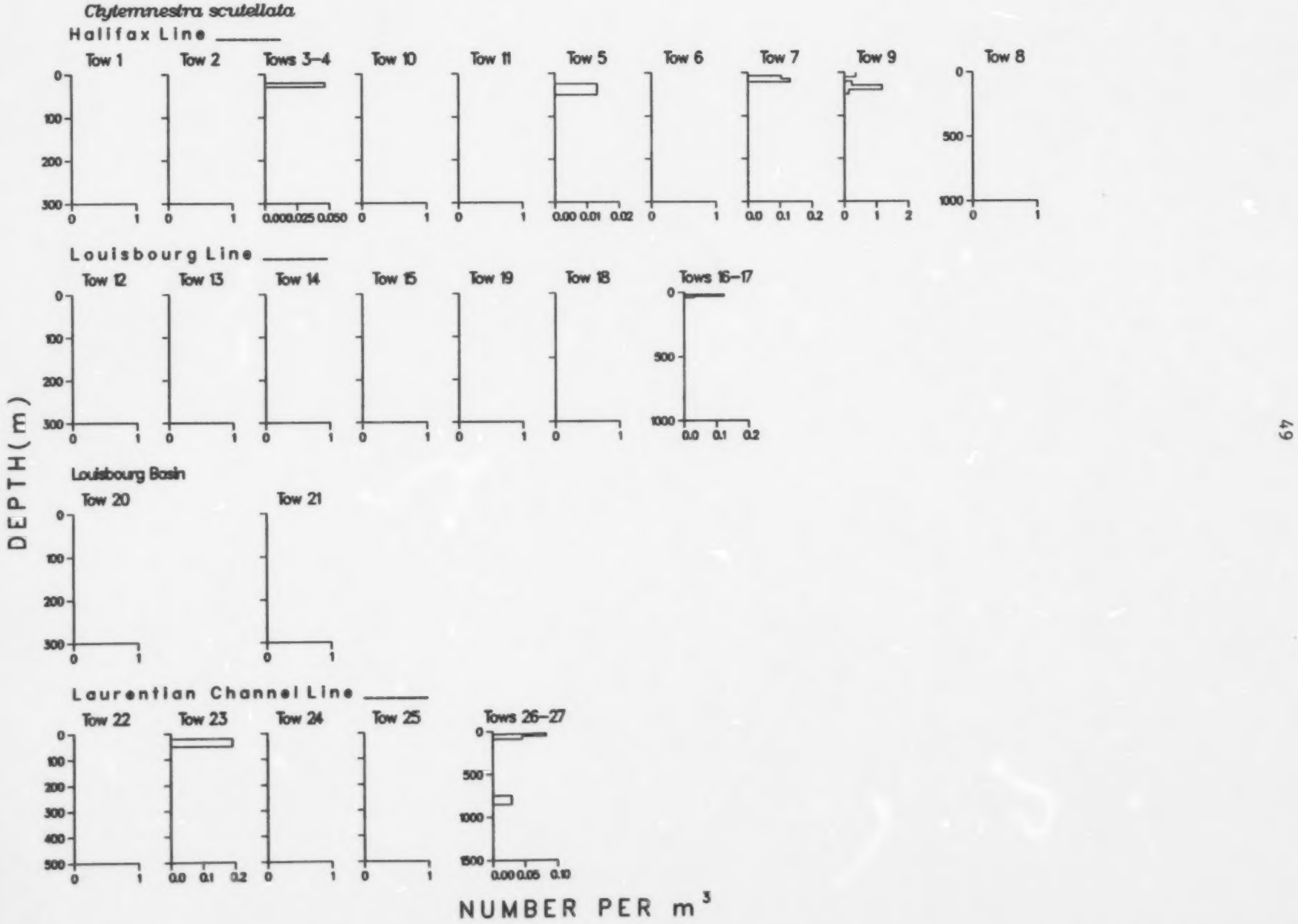

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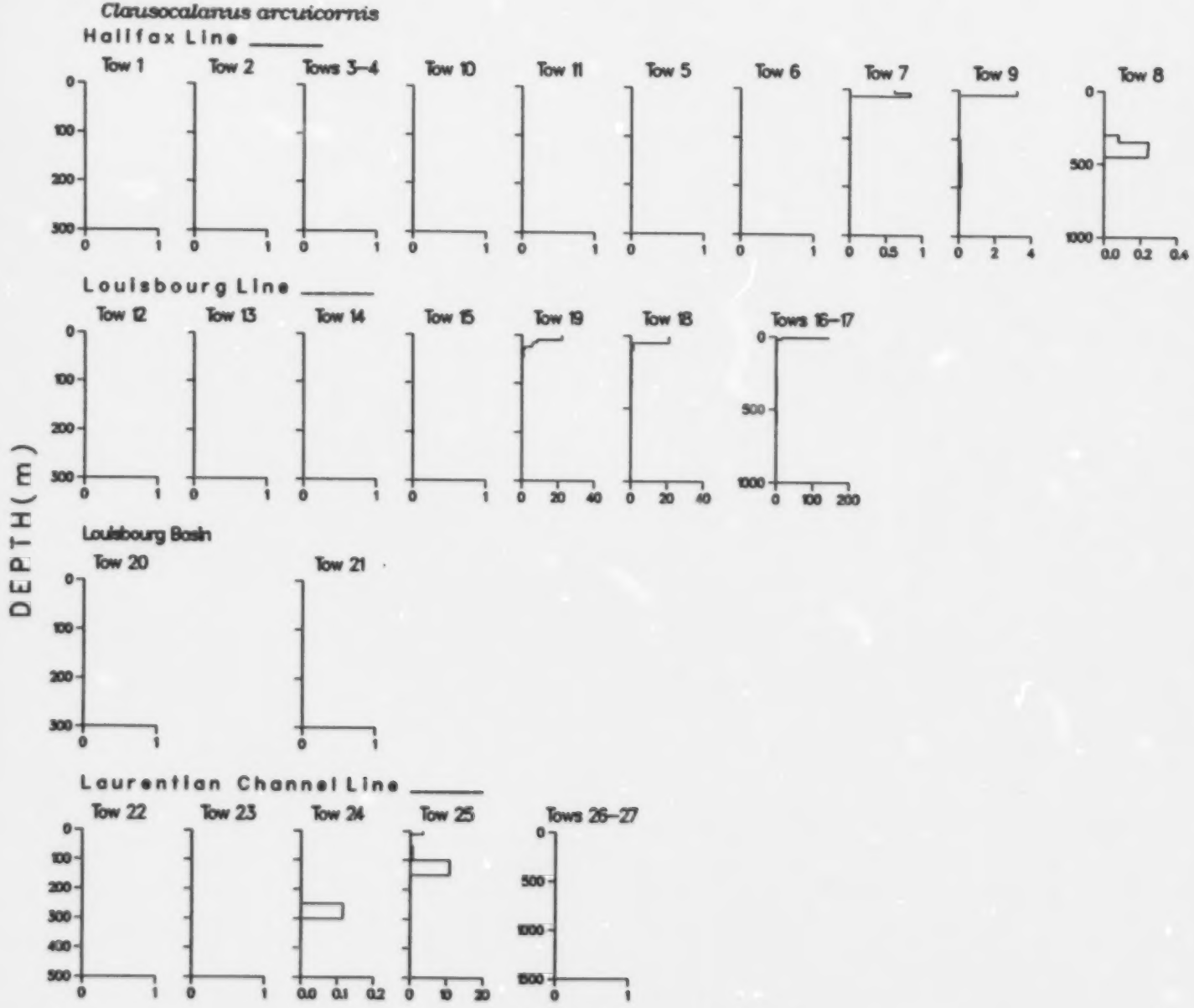

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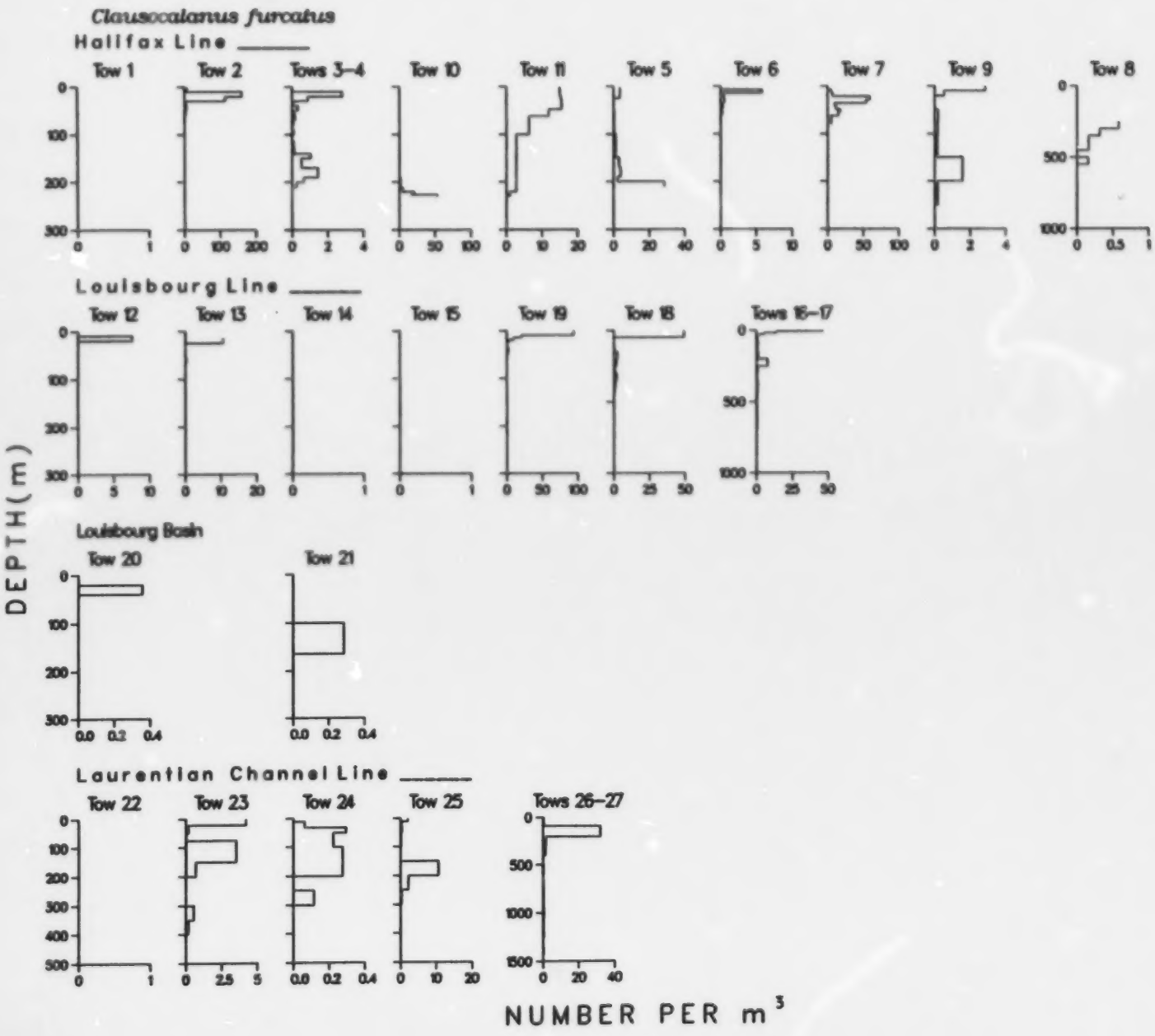

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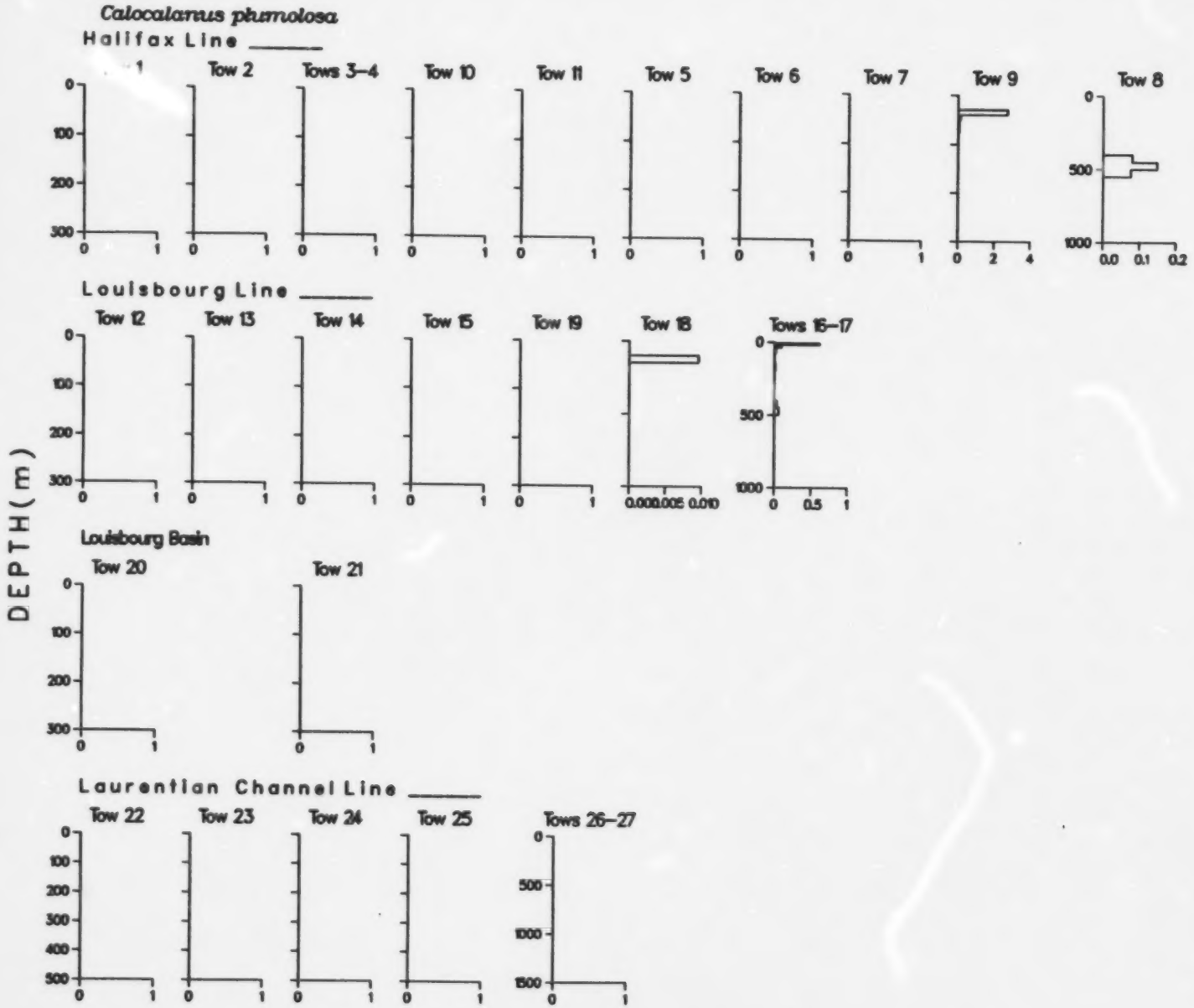

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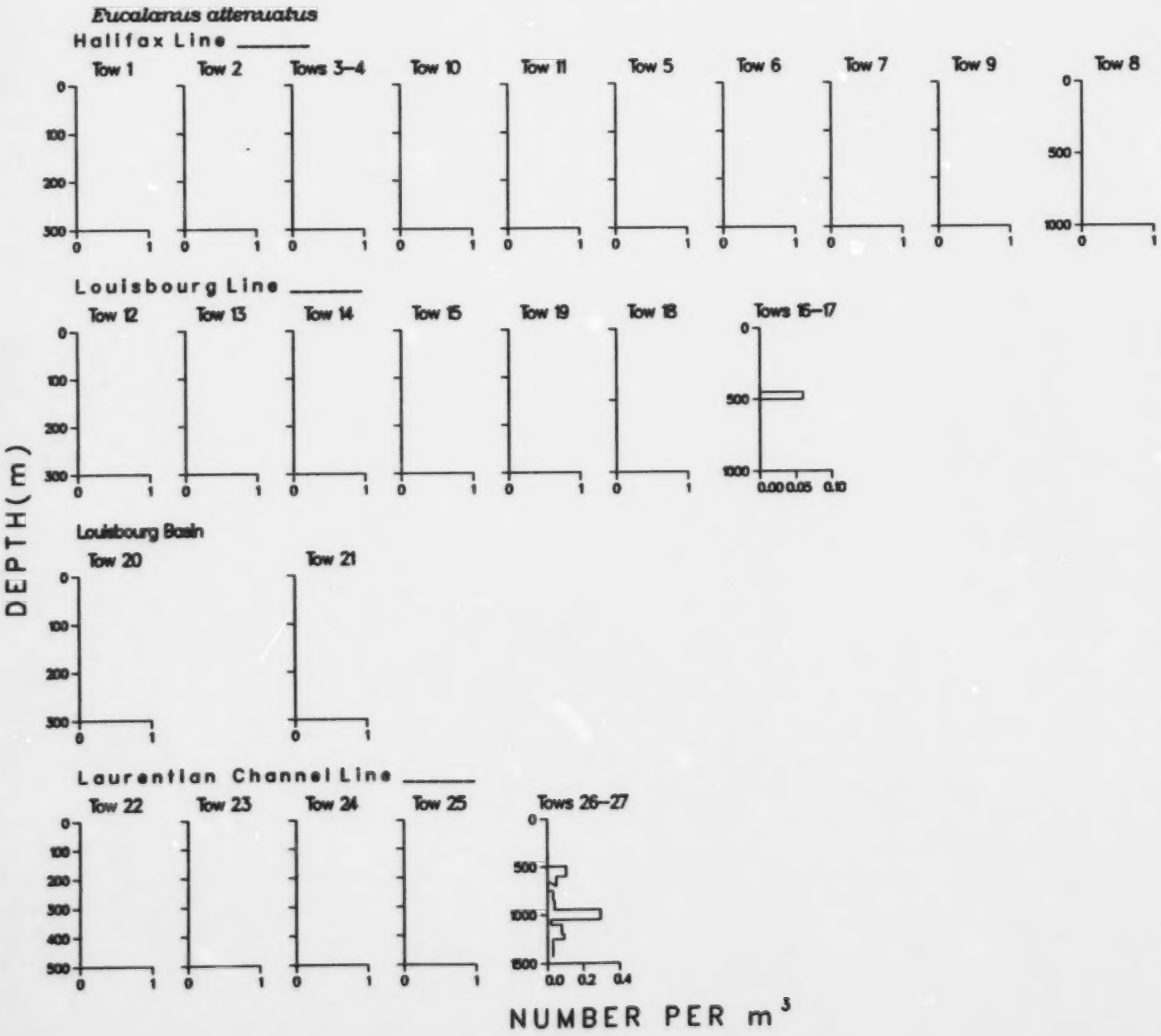

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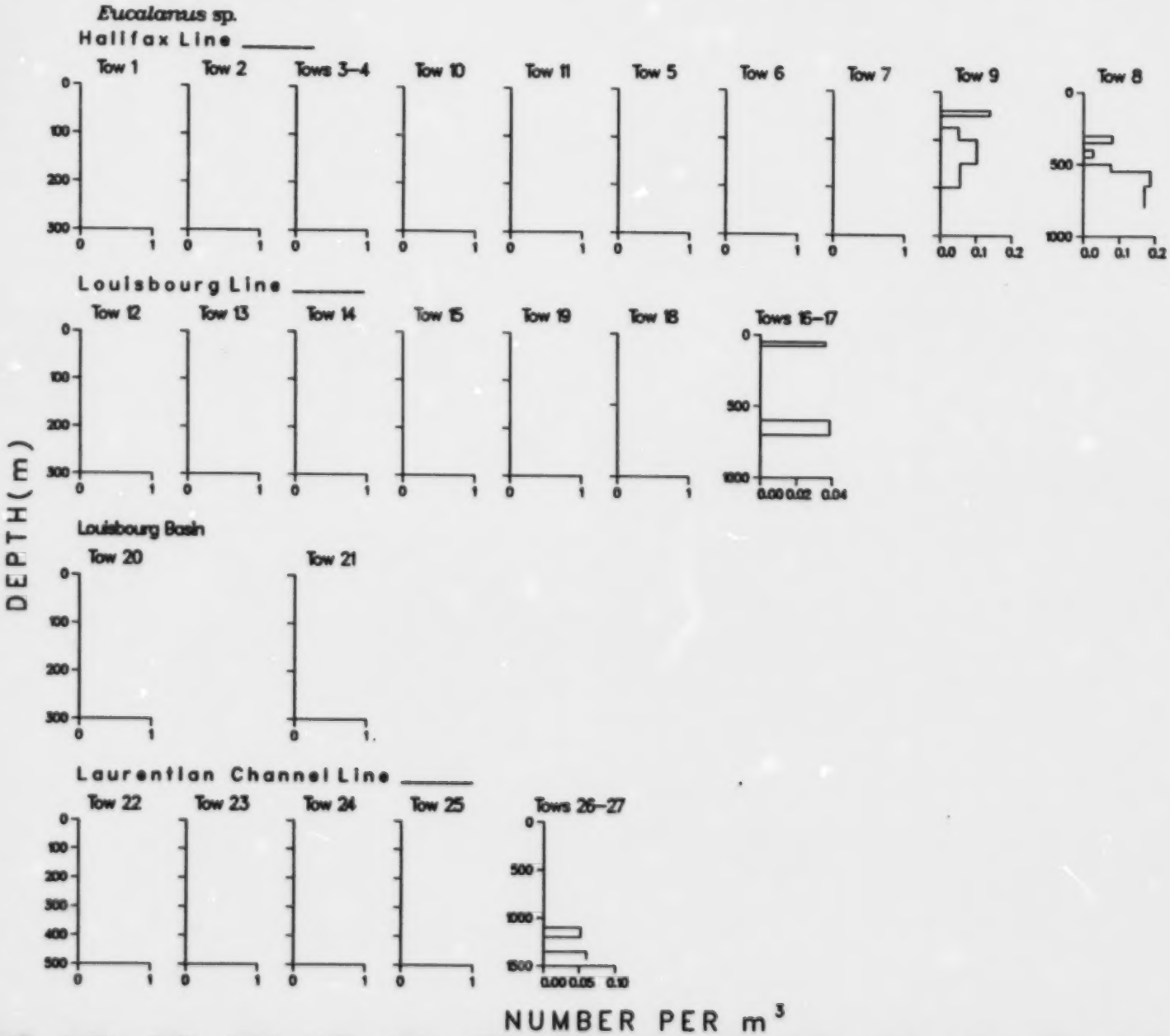

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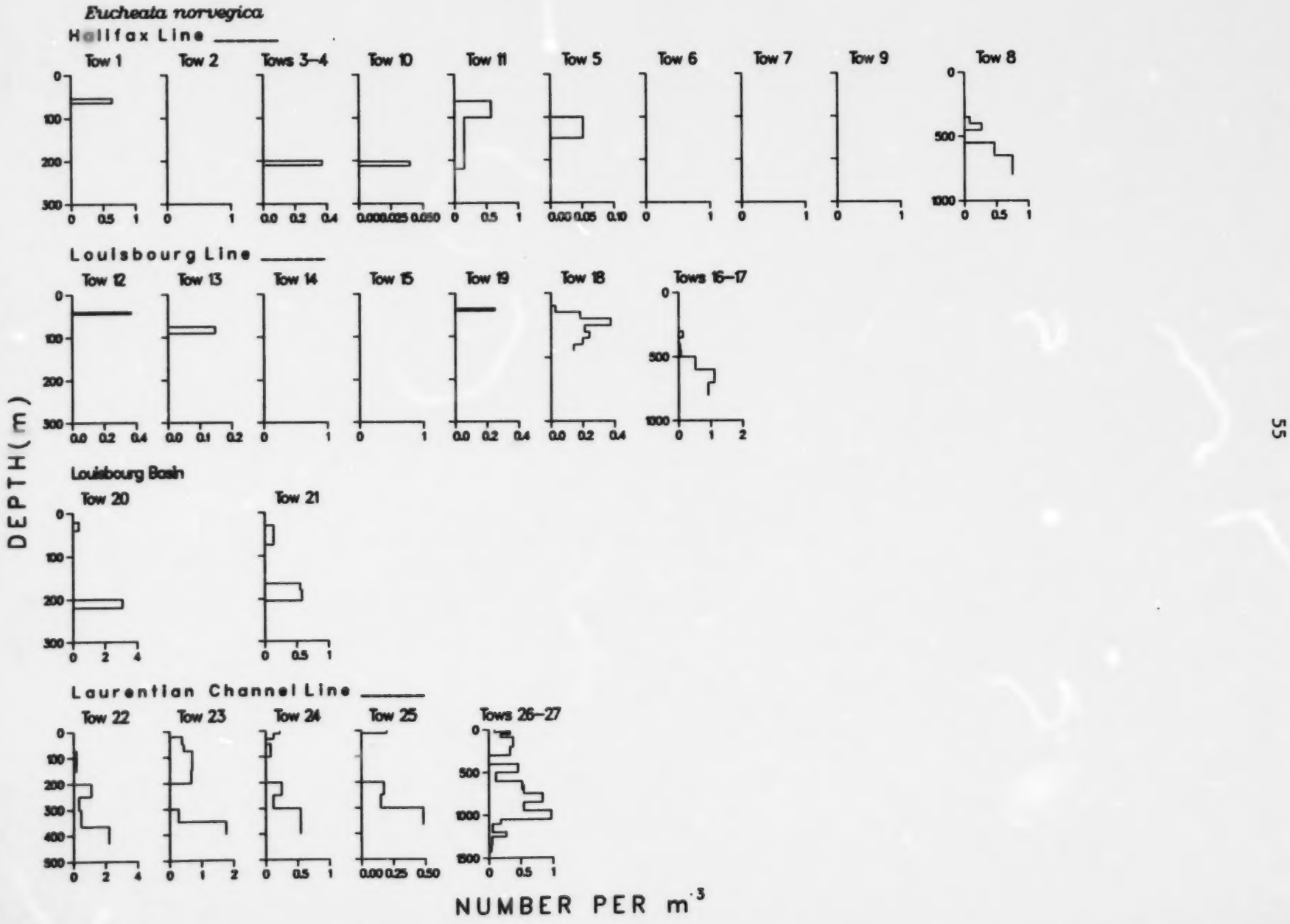

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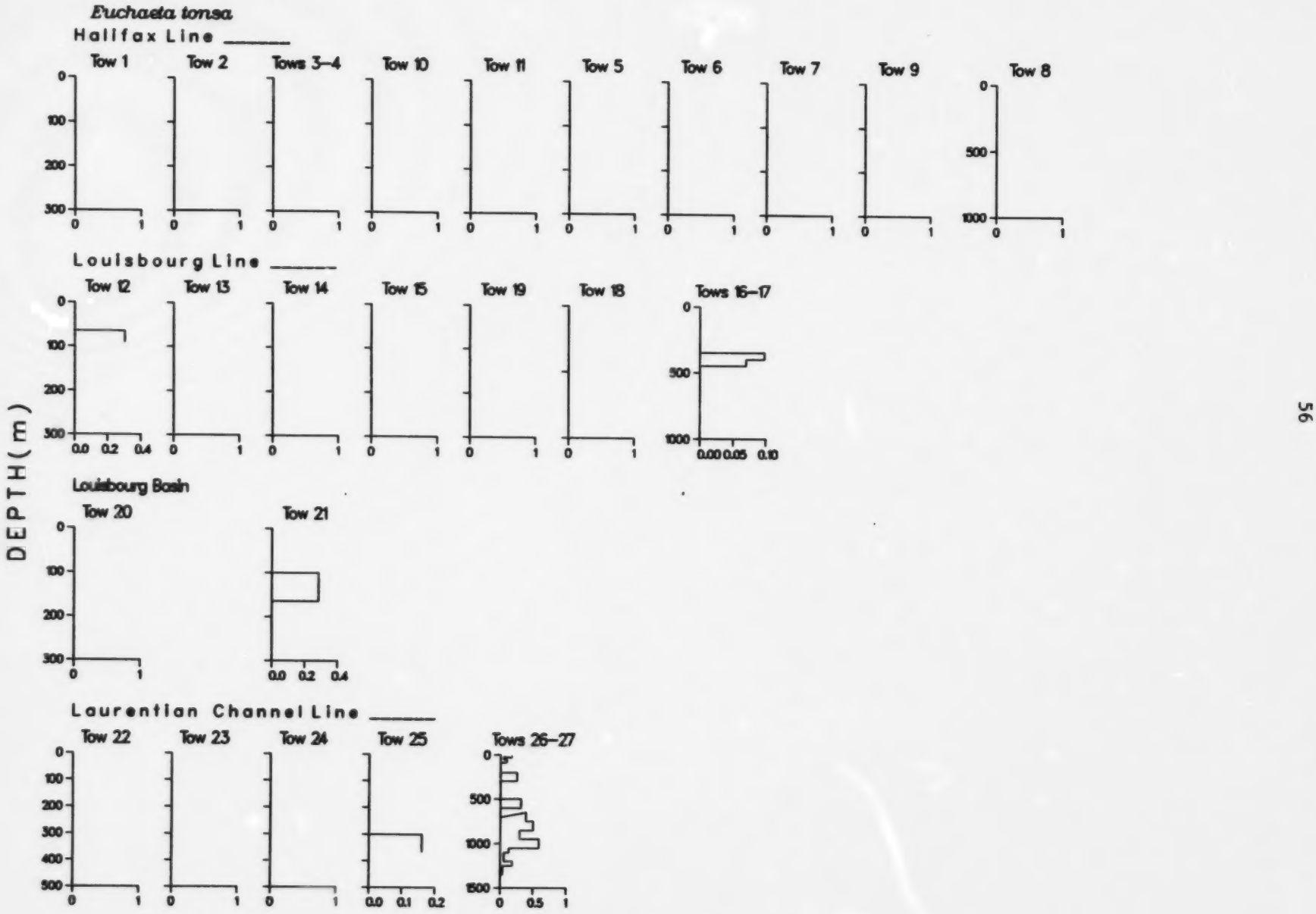

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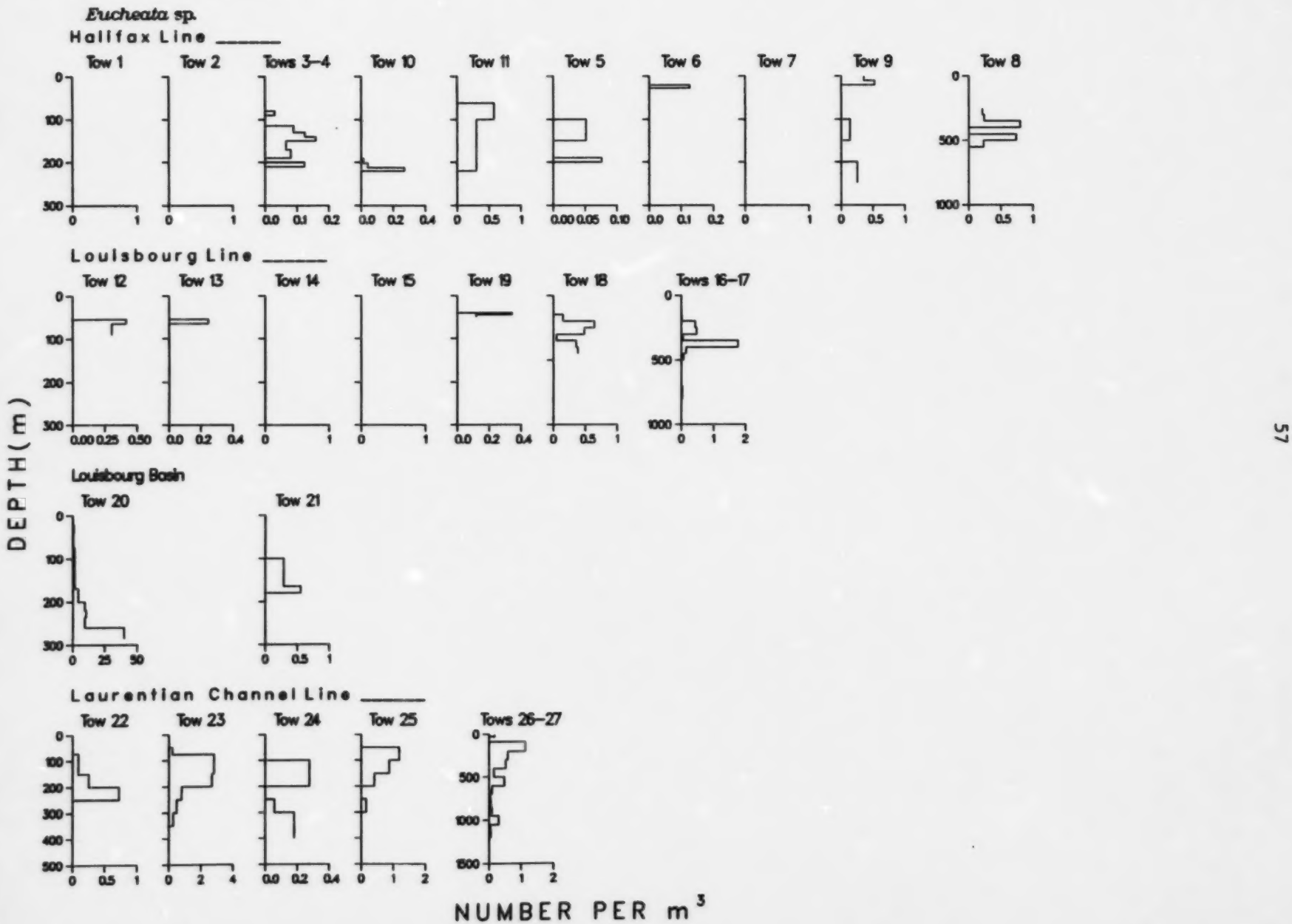

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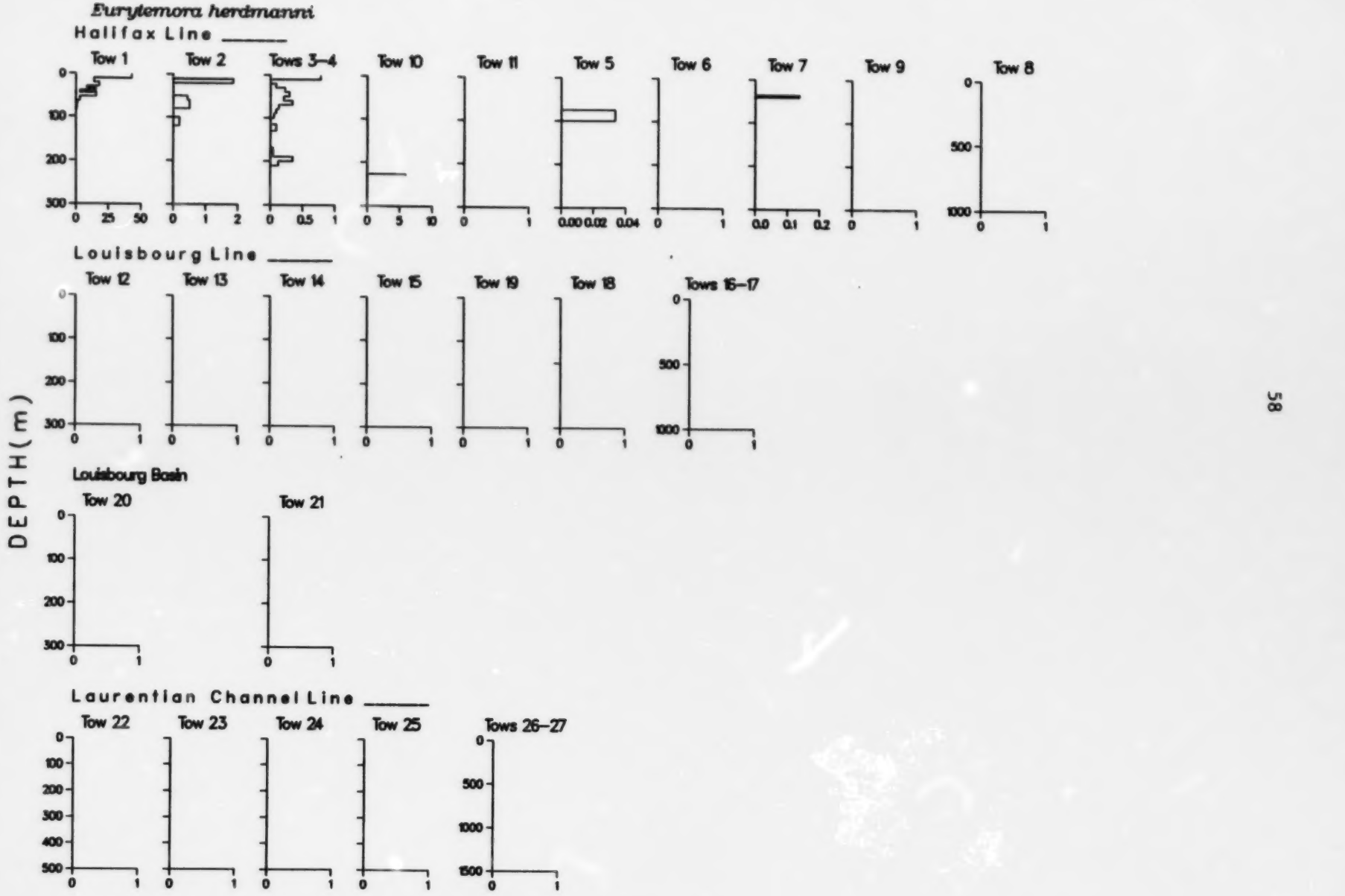

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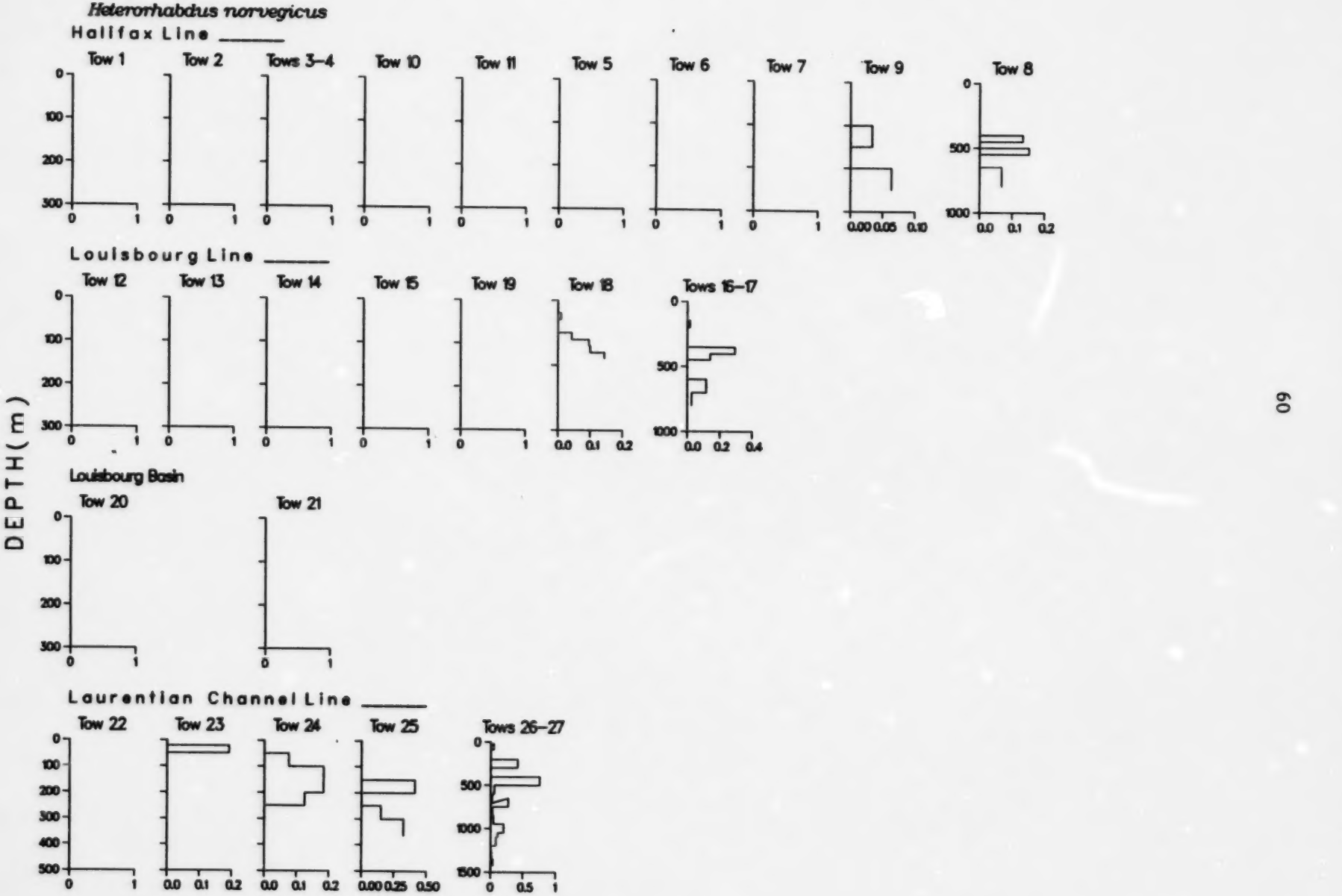
Fig. 3. (Continued)



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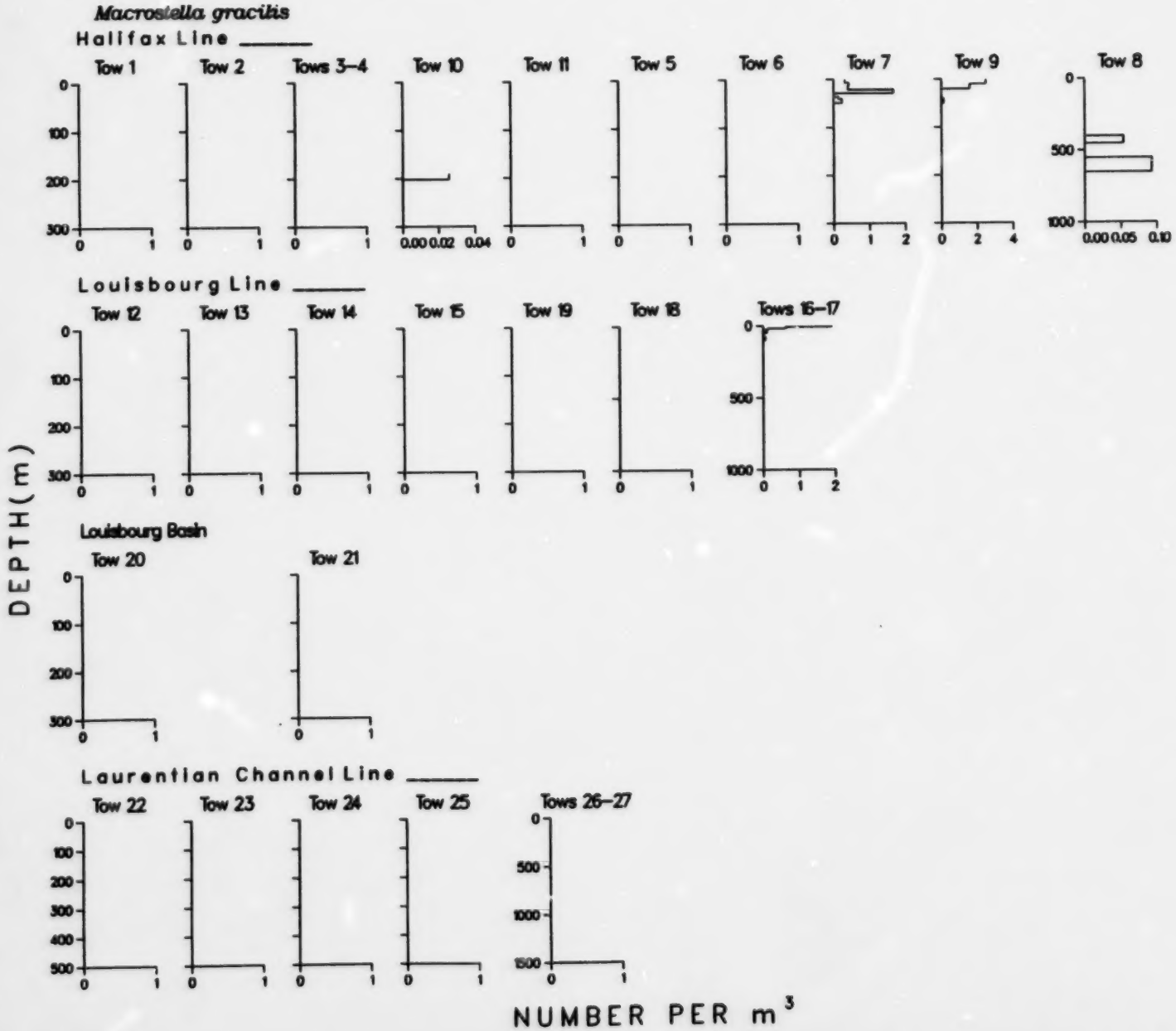

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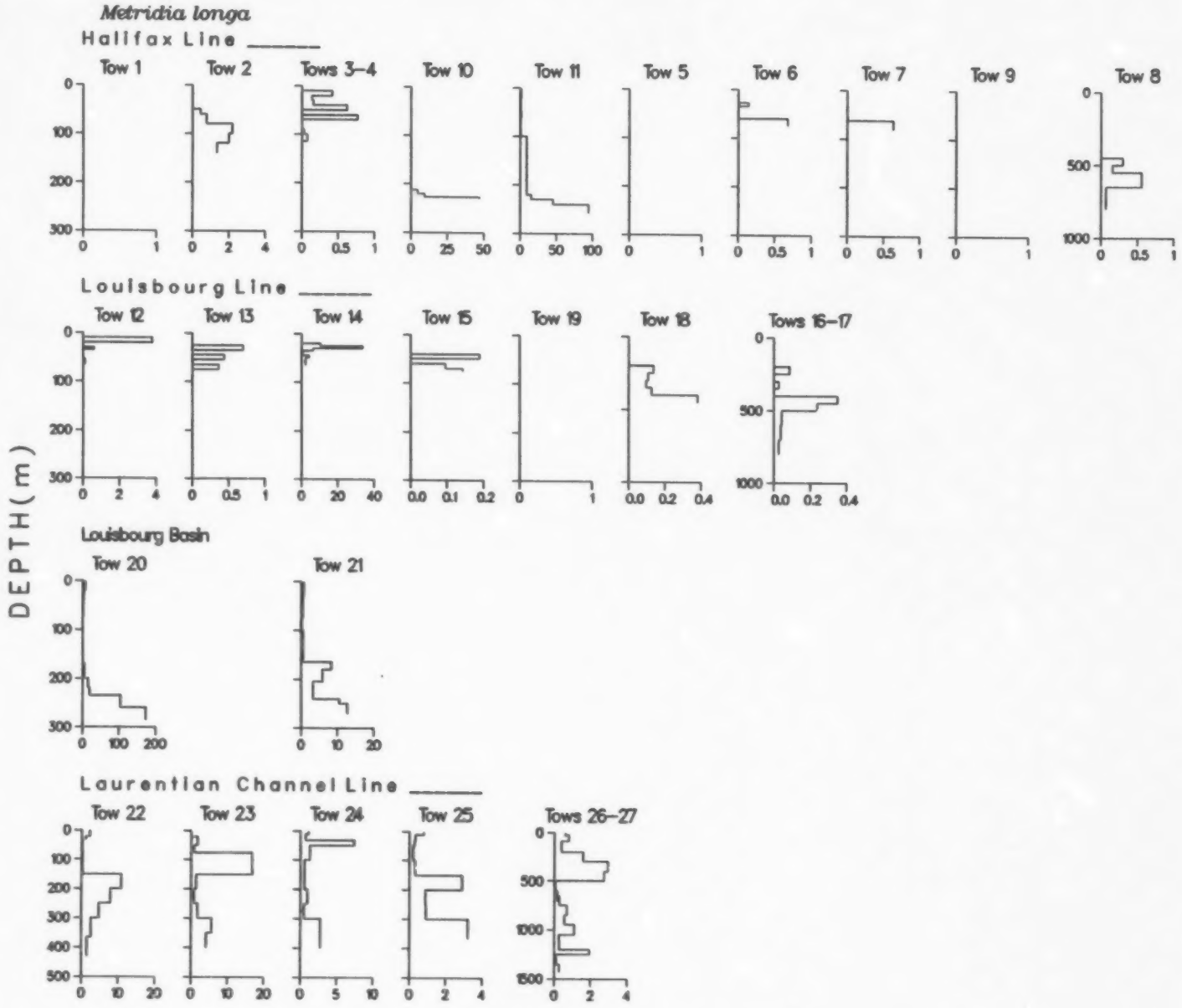

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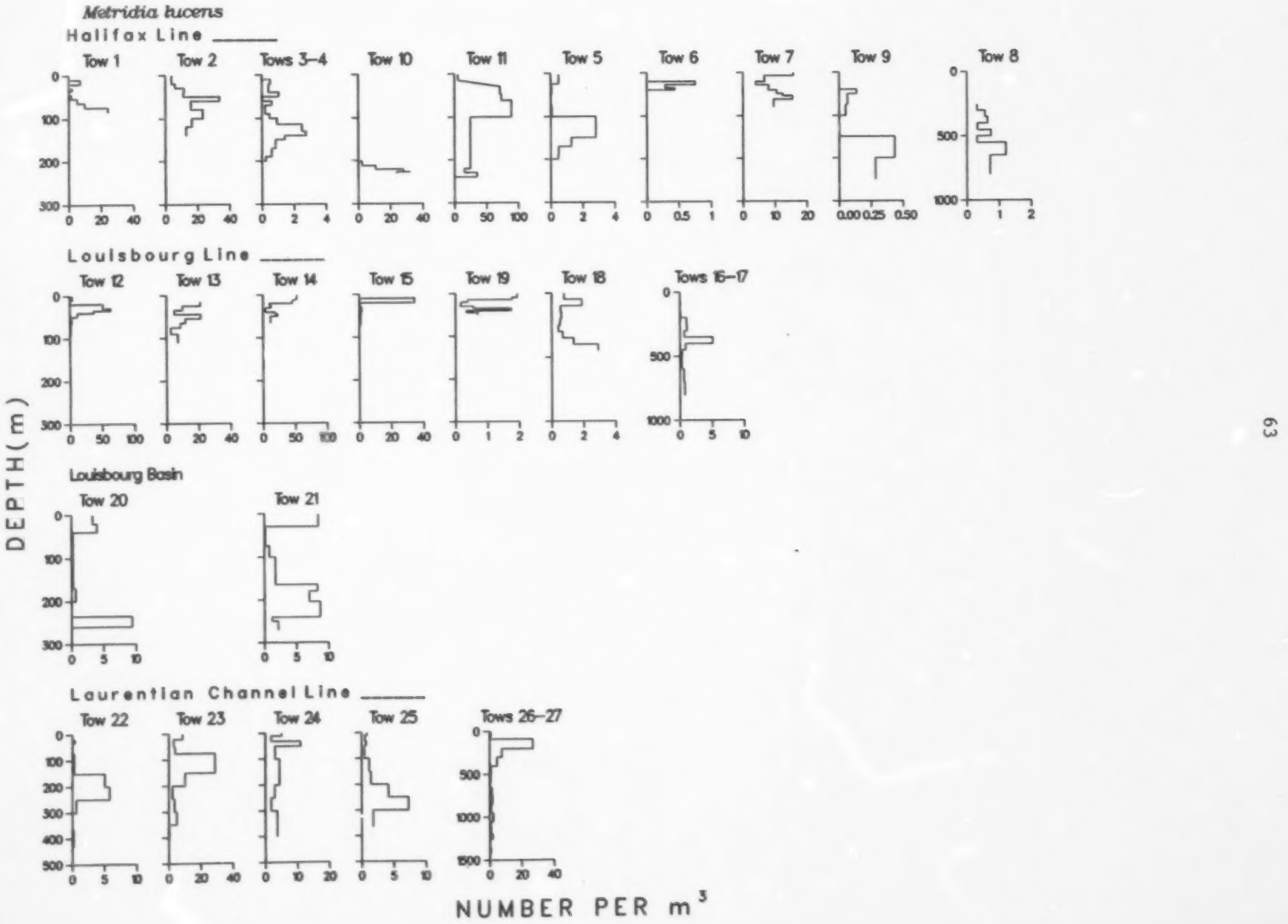

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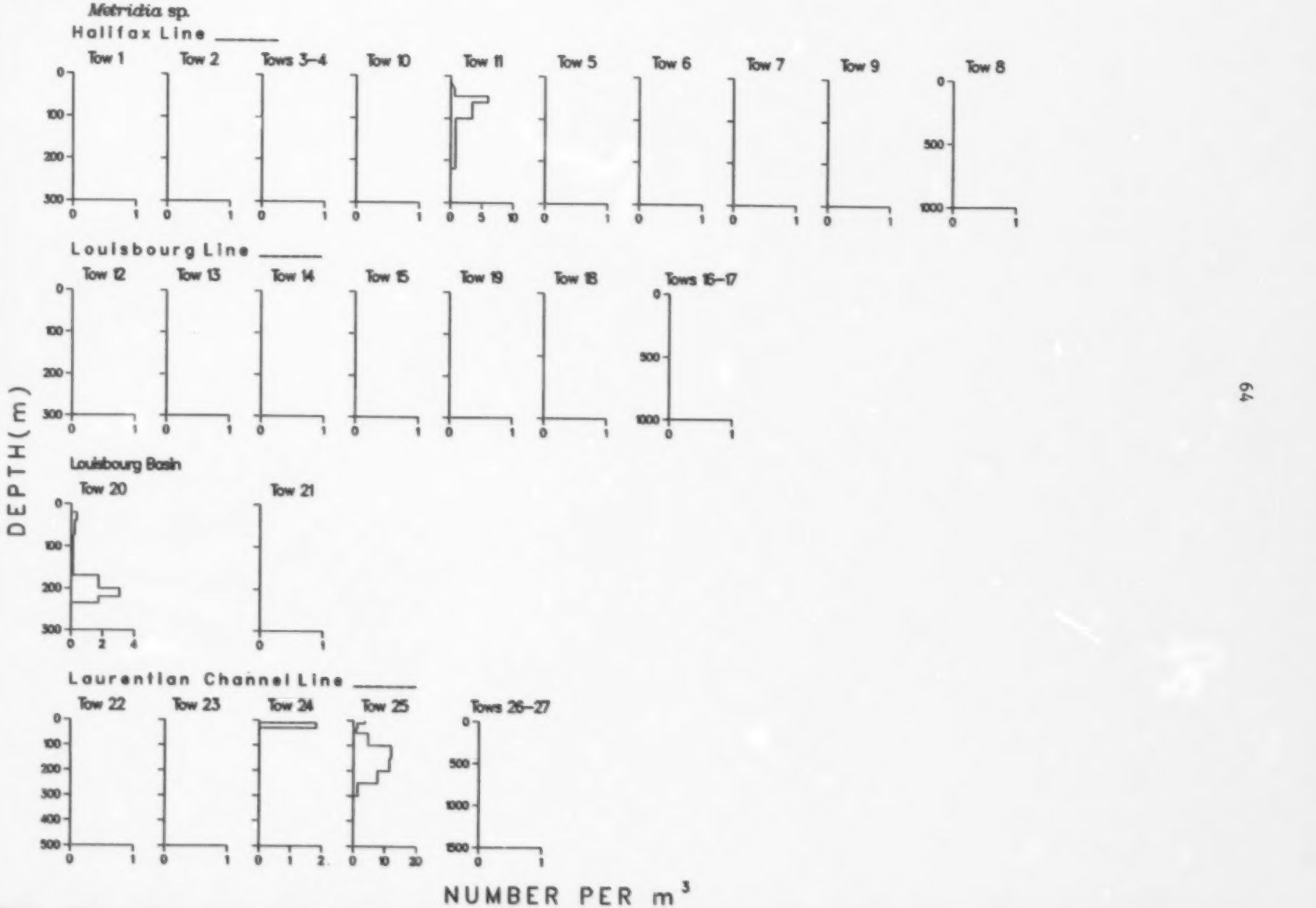

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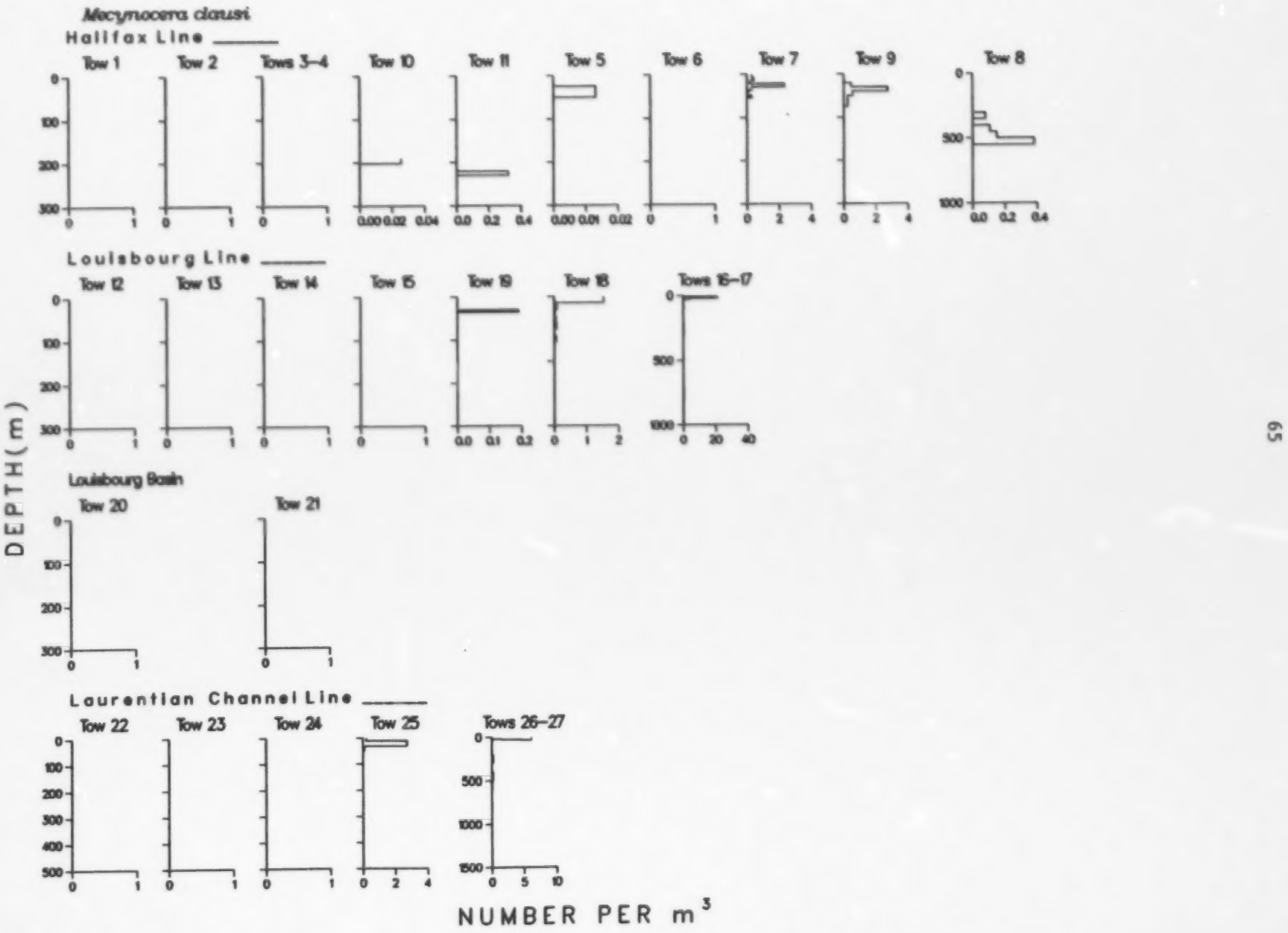

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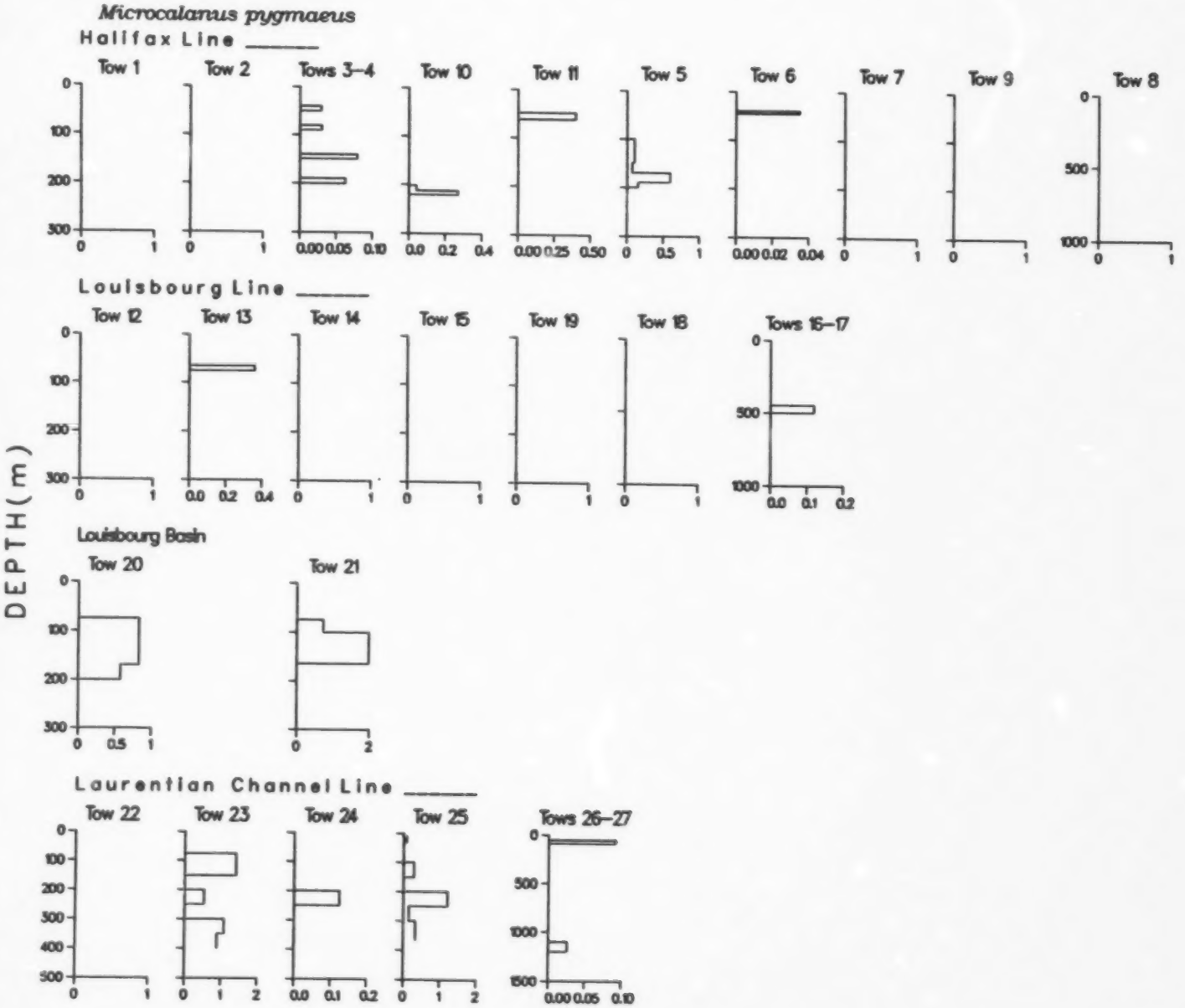

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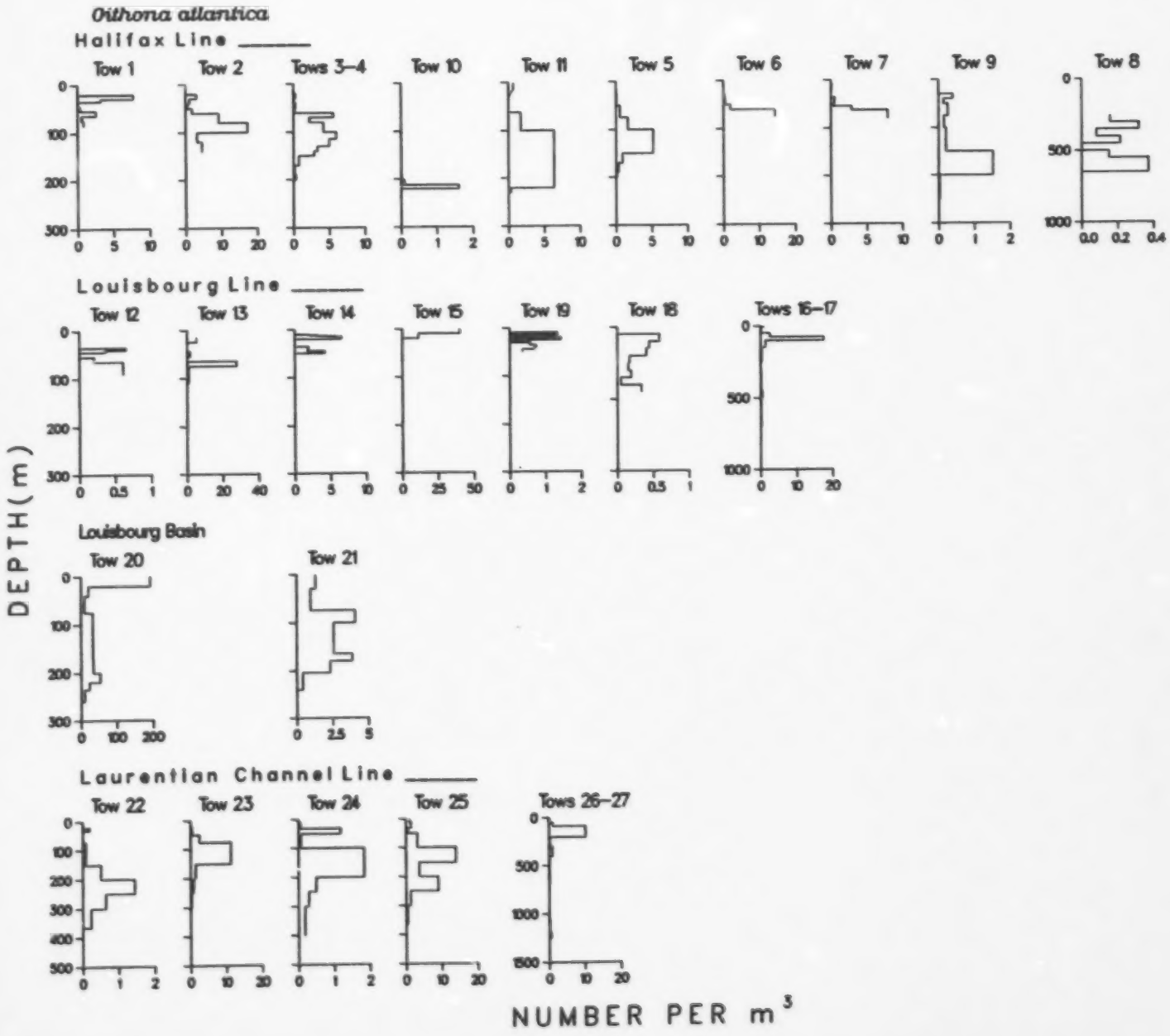

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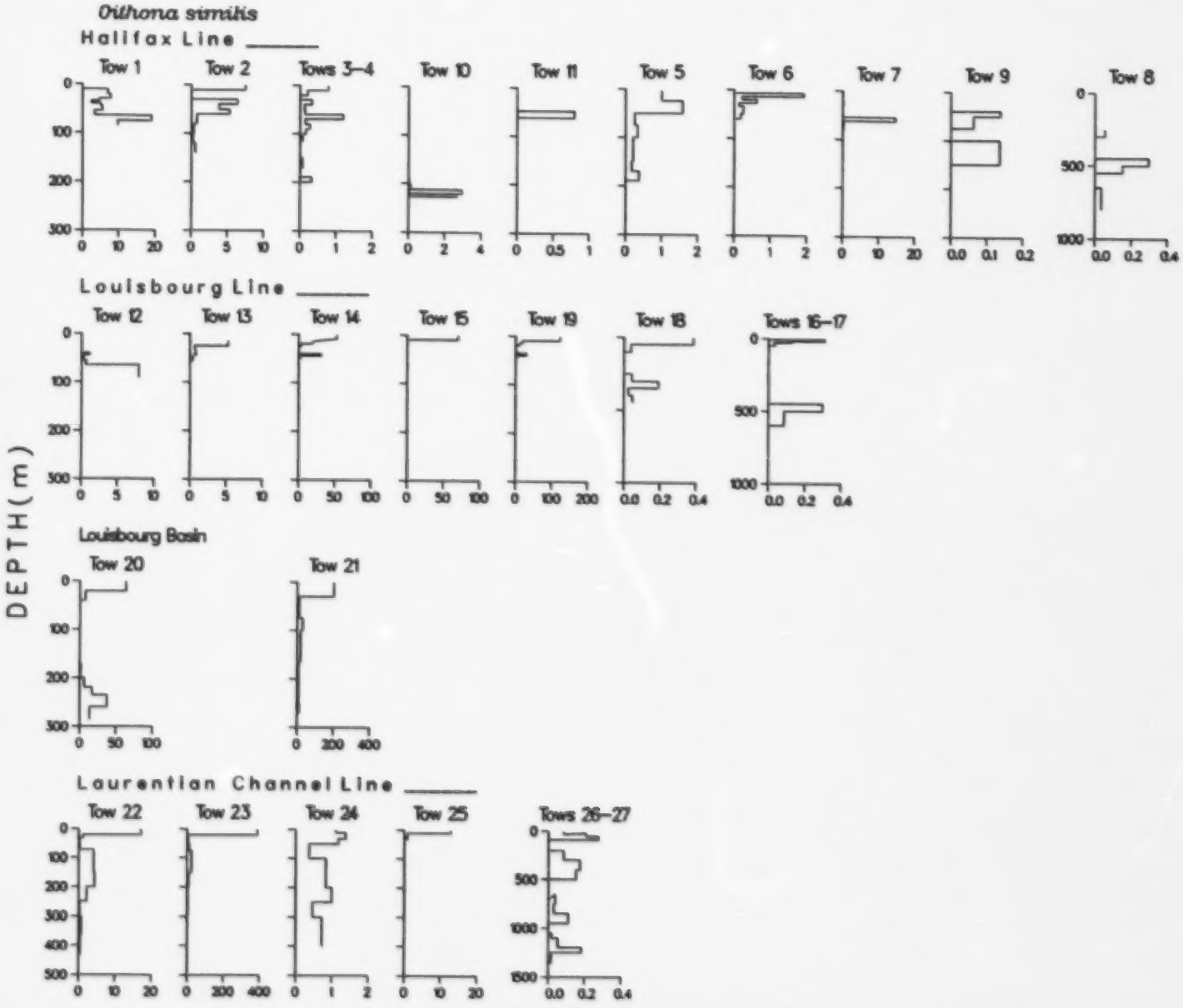

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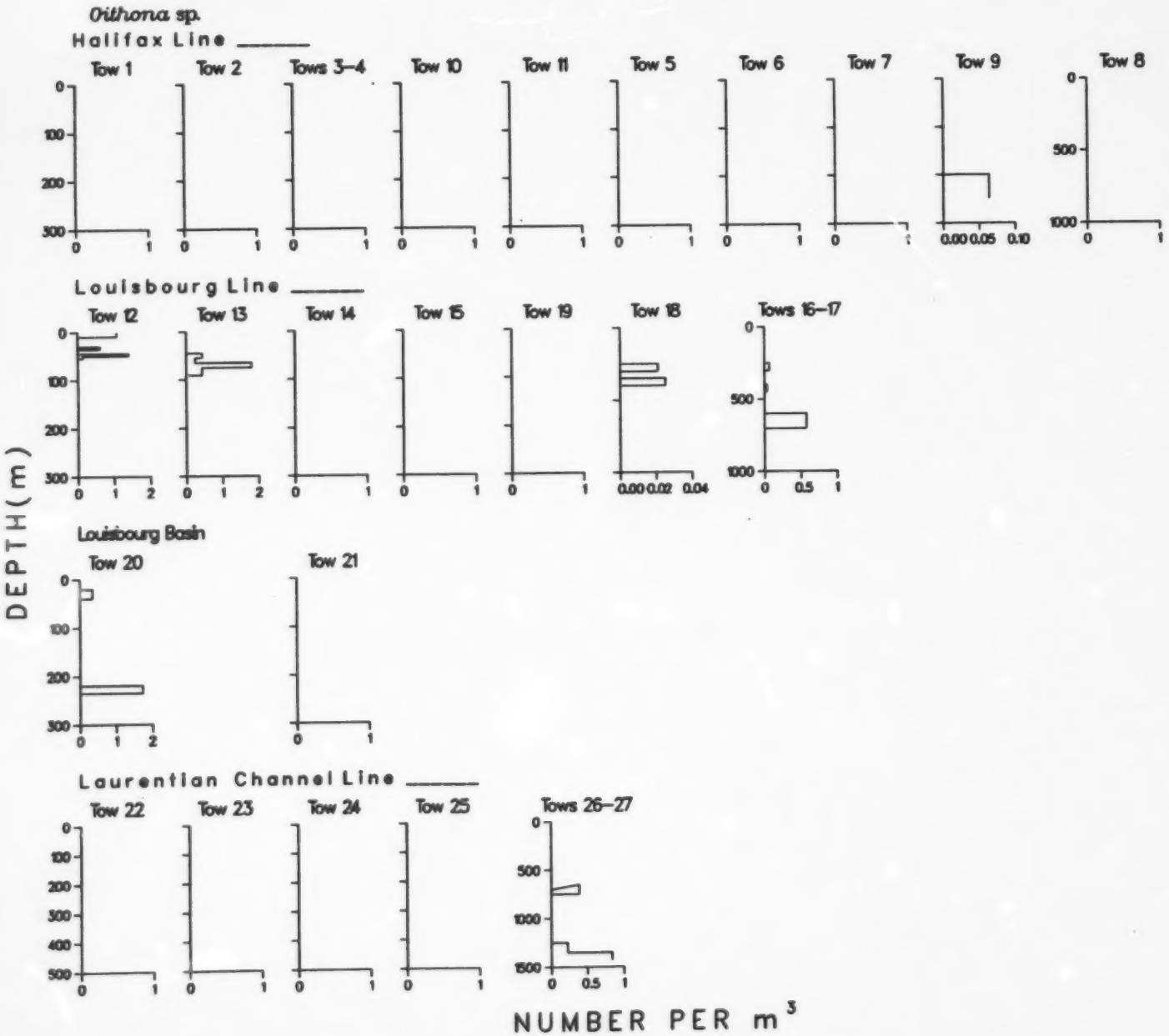

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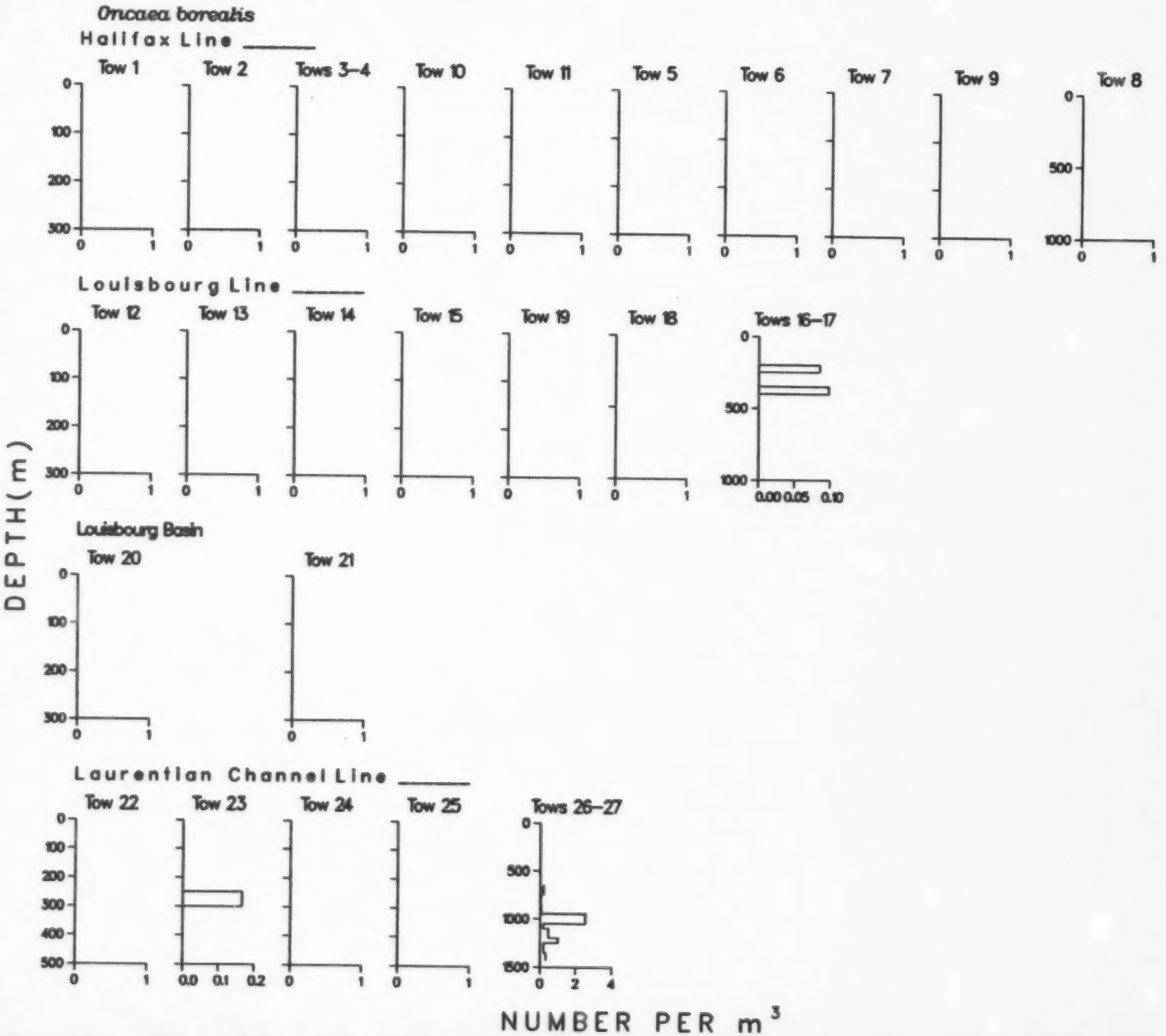

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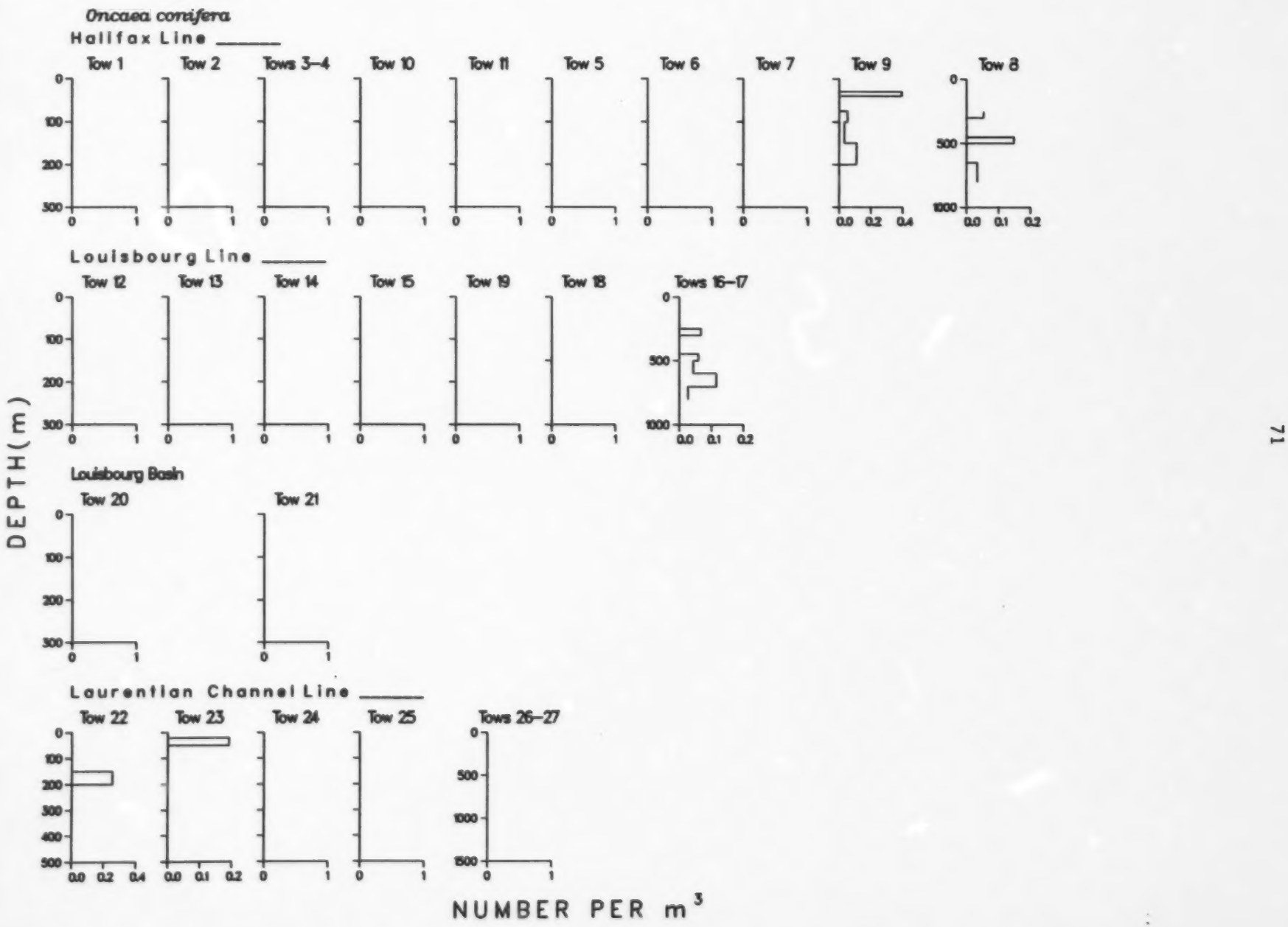

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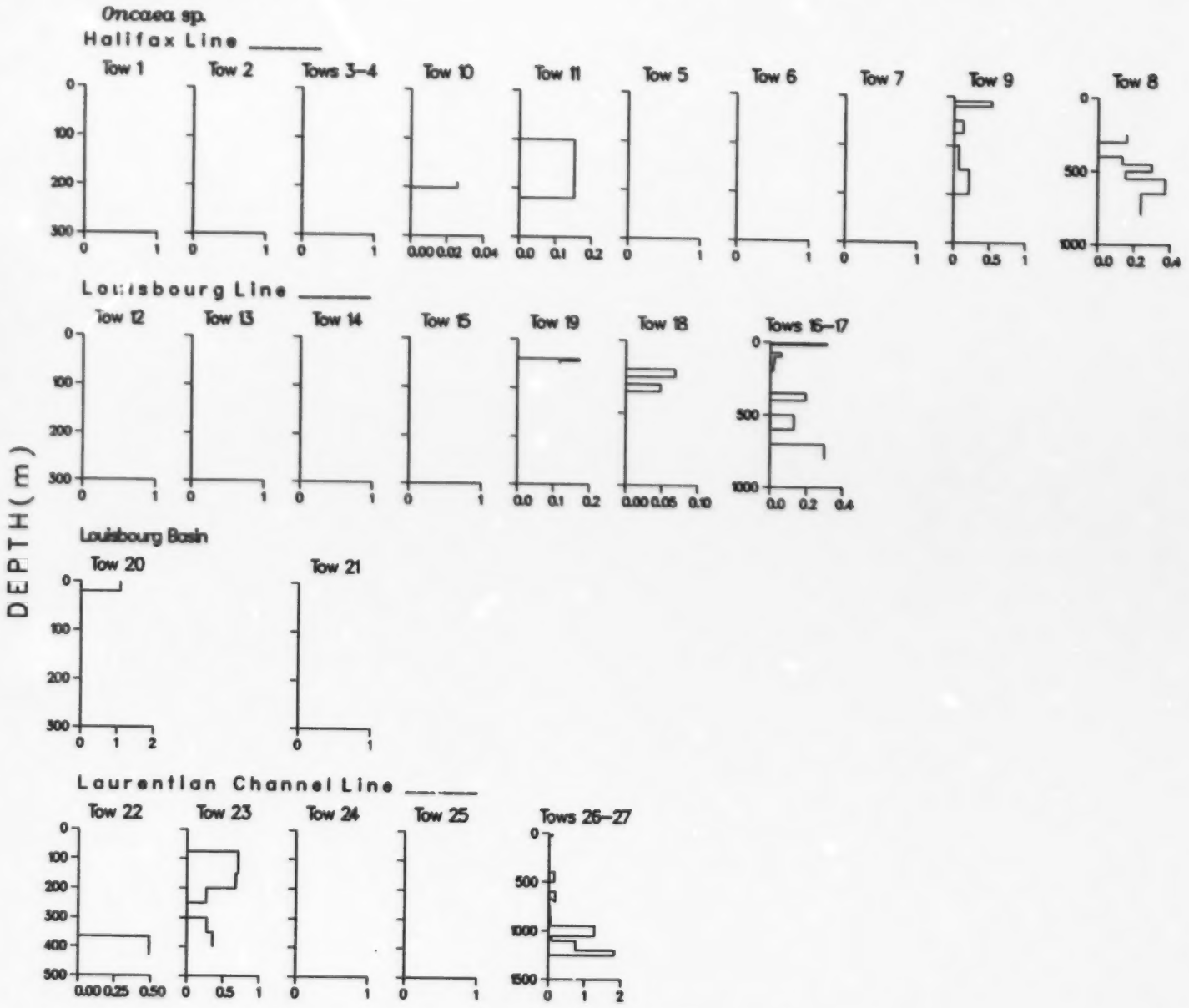

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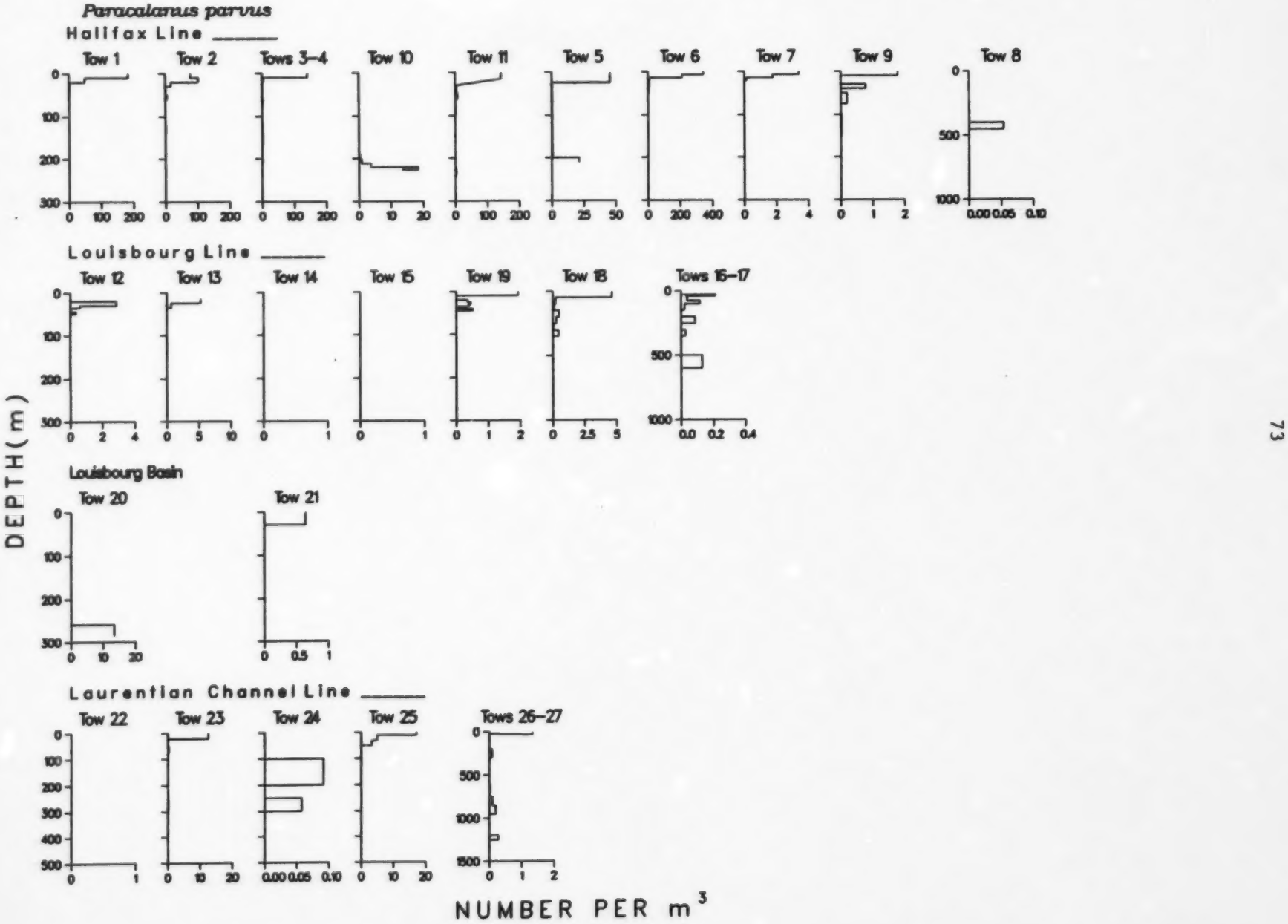

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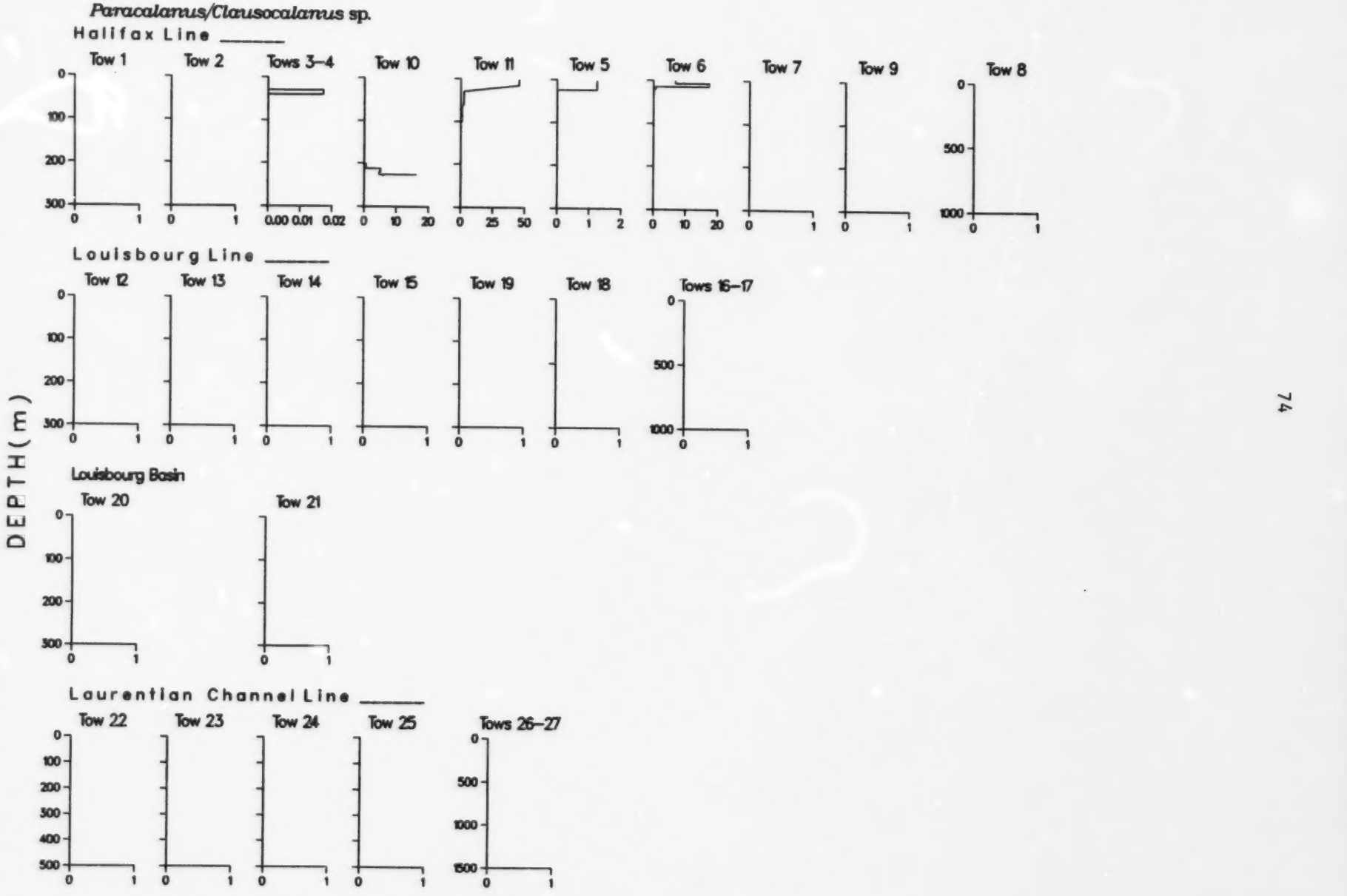

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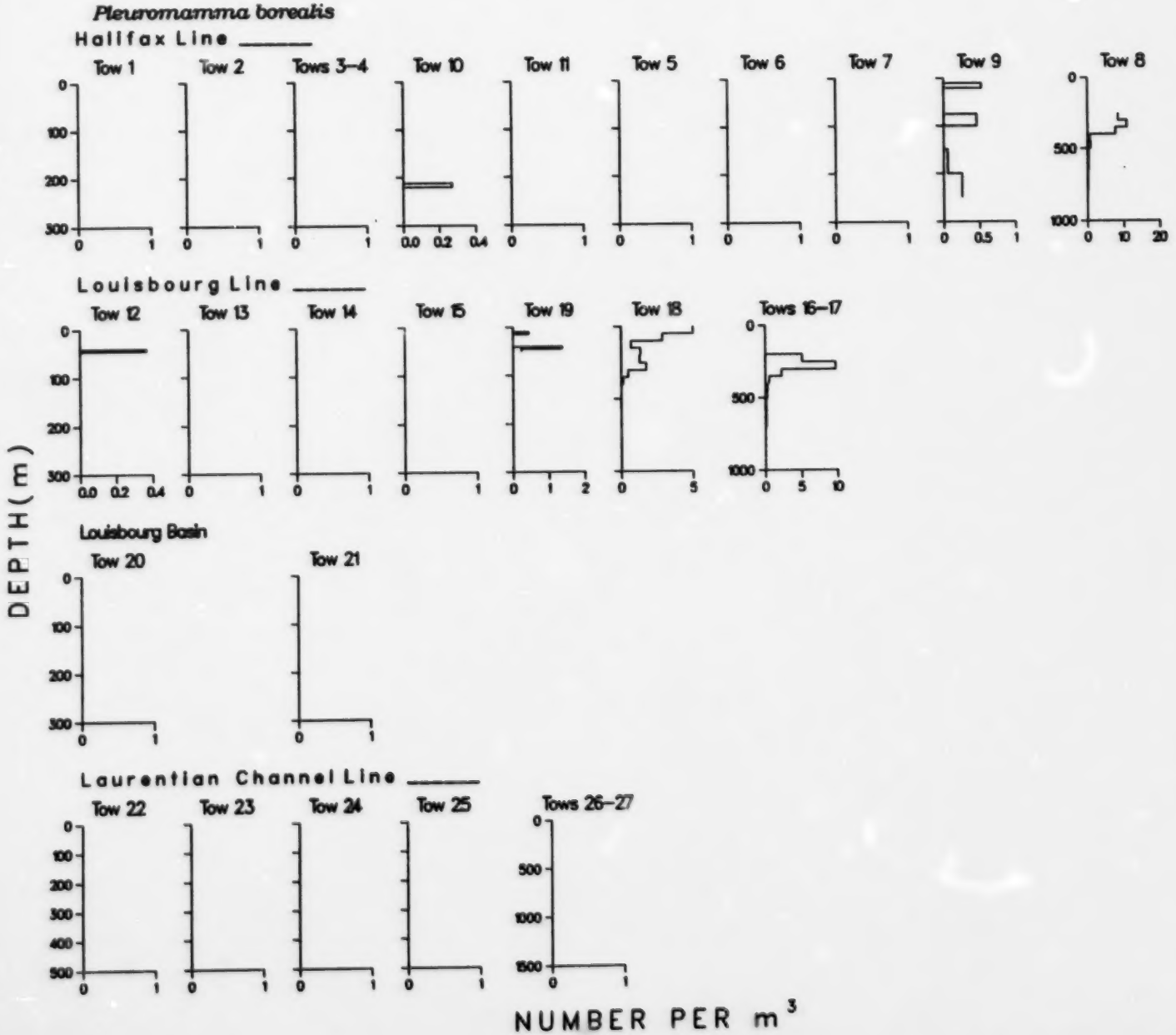

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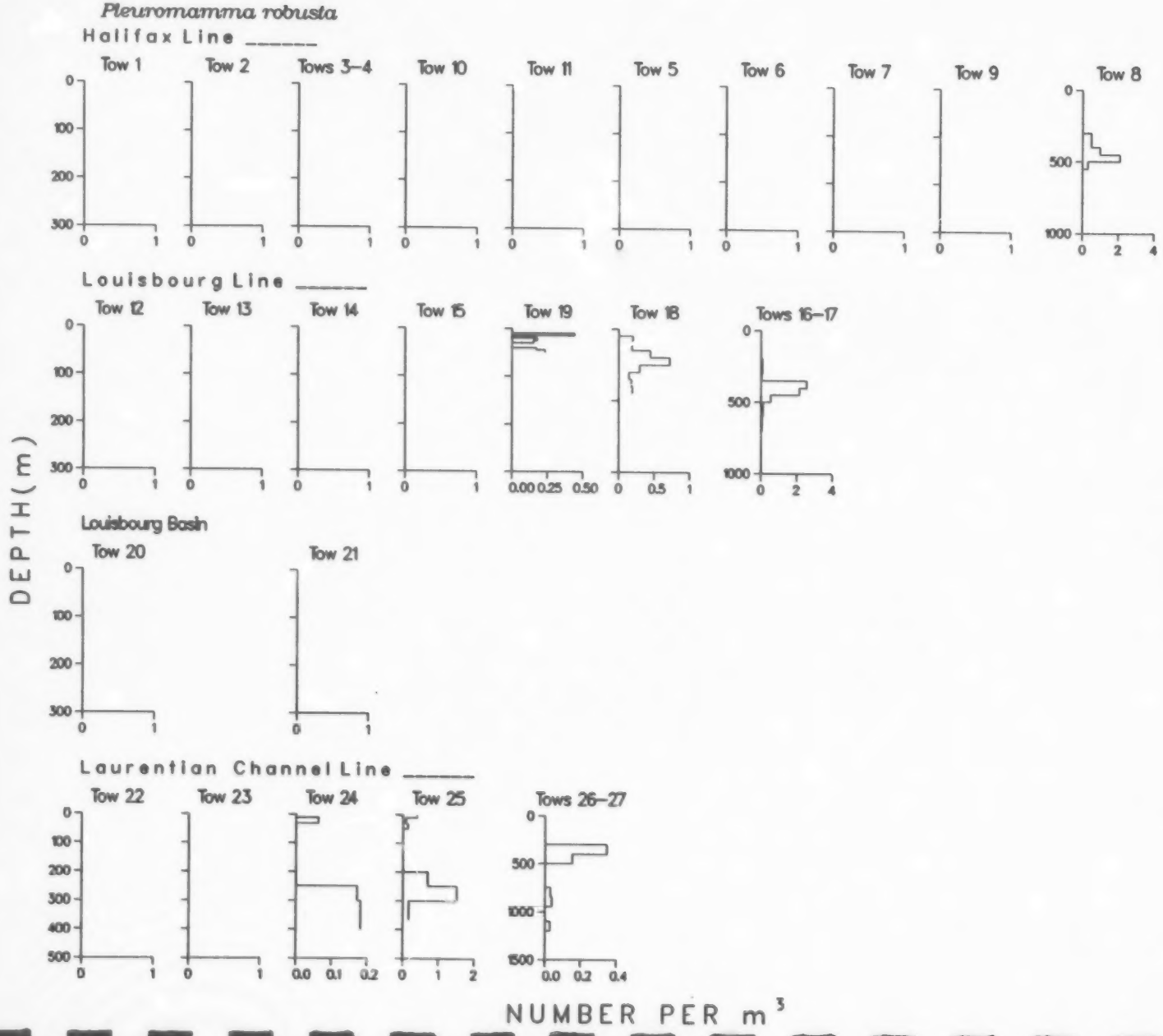

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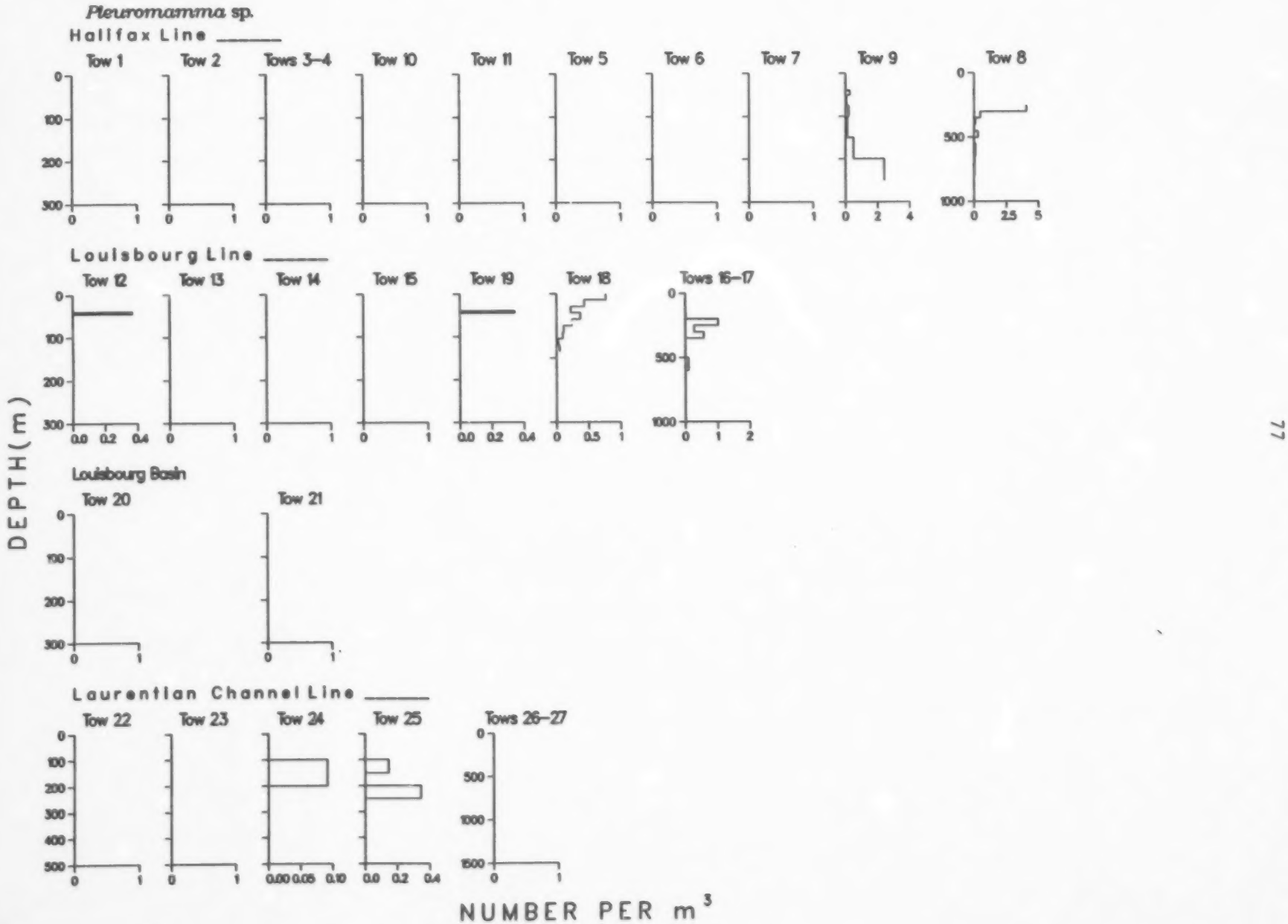

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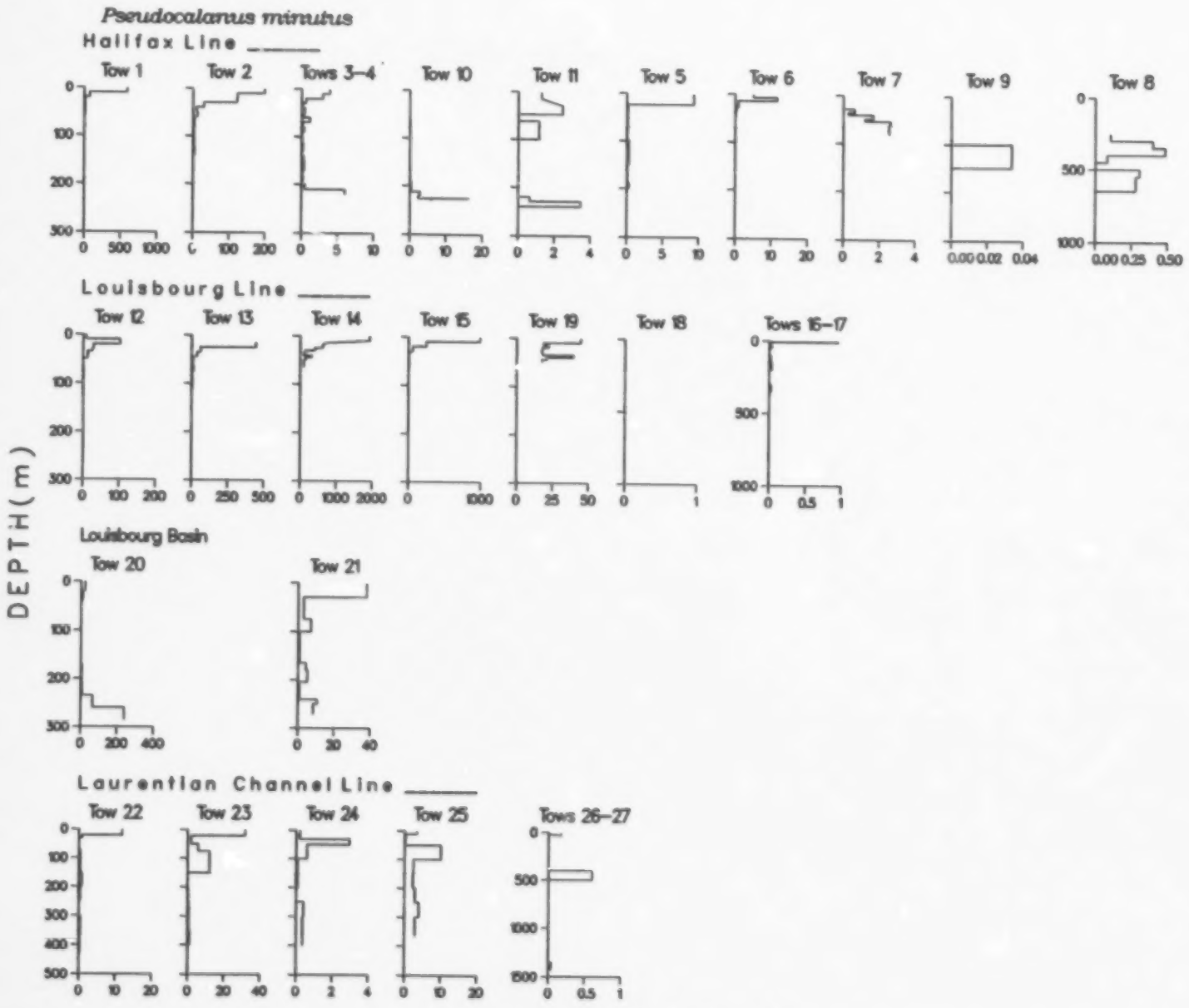

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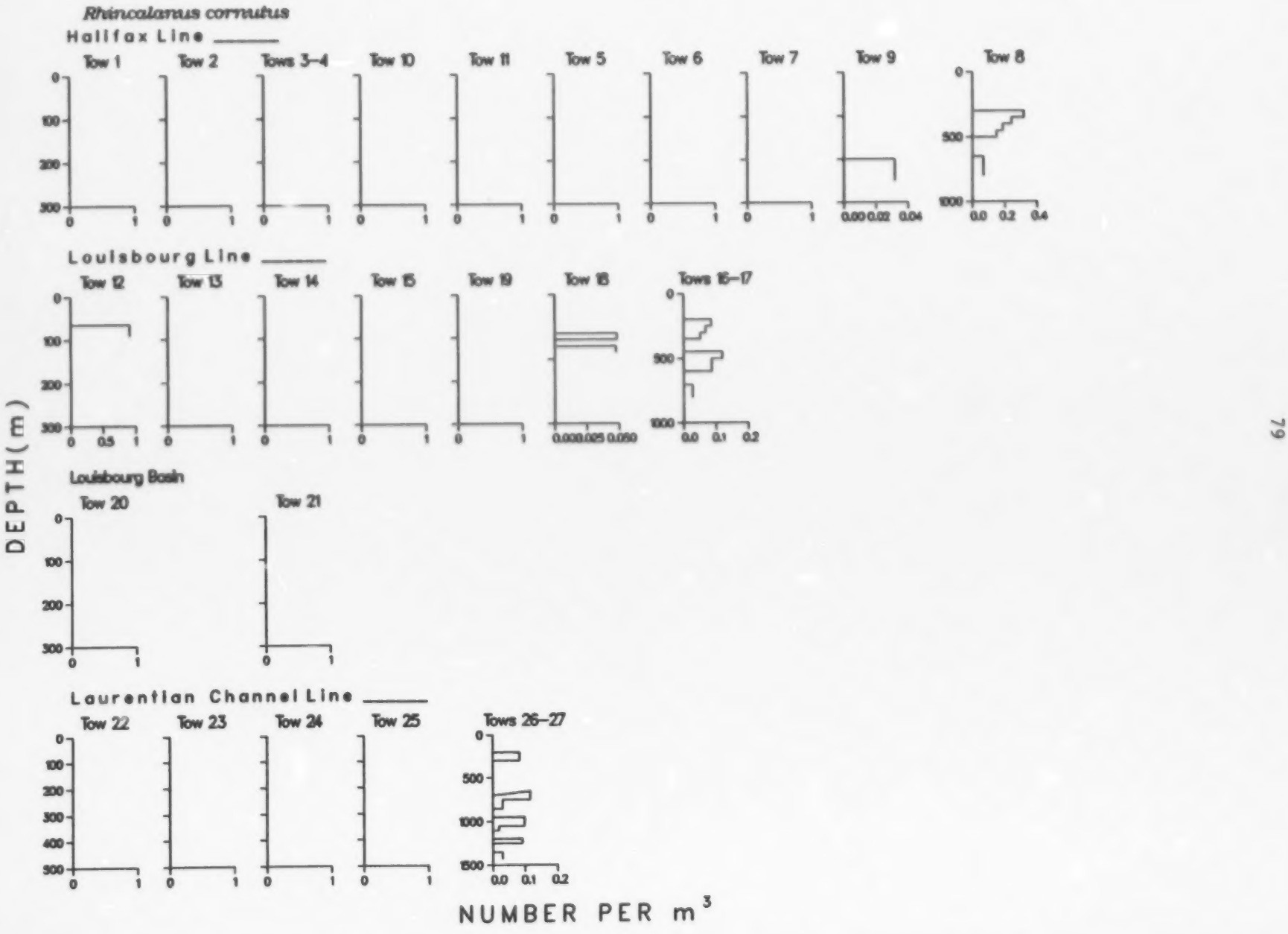

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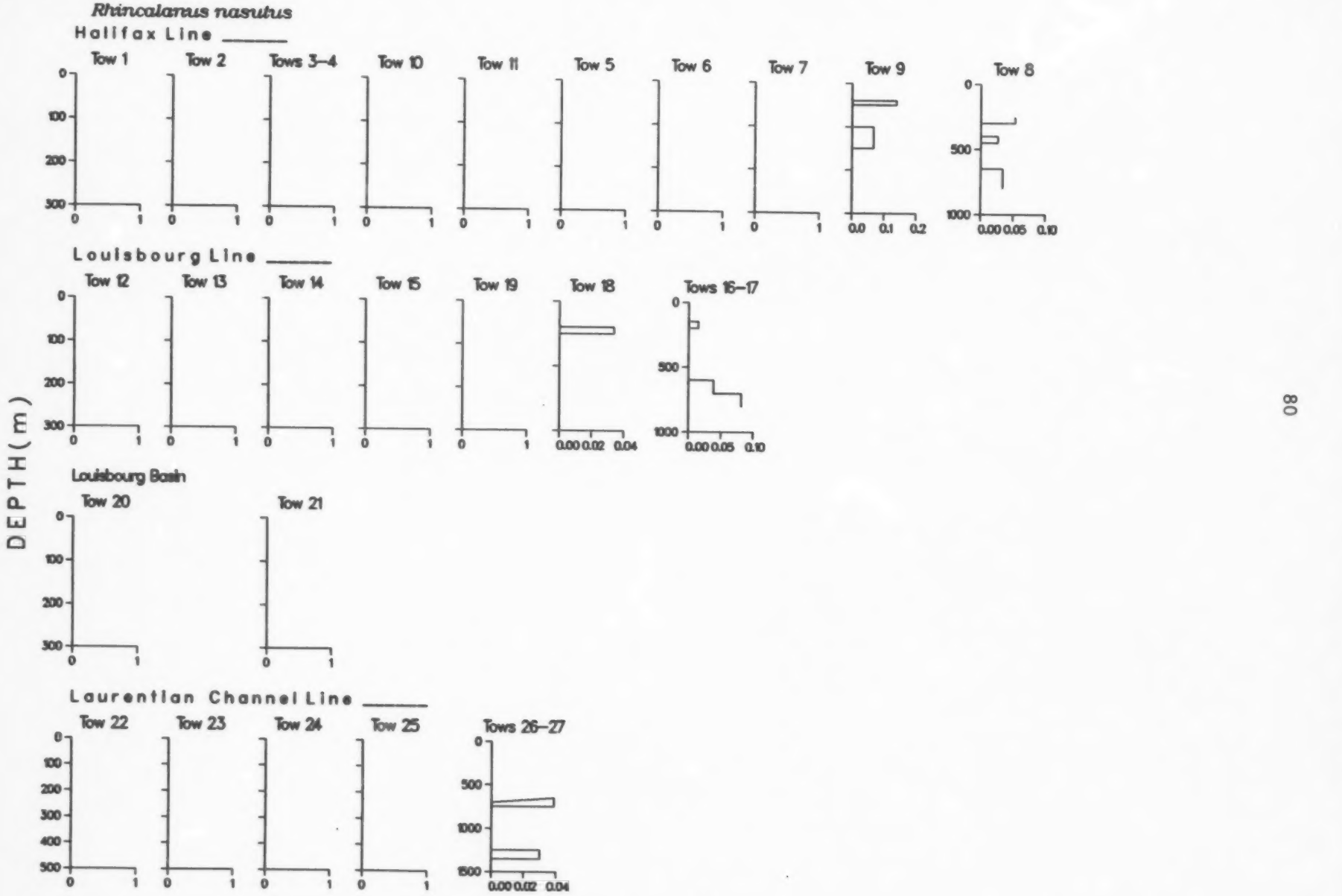

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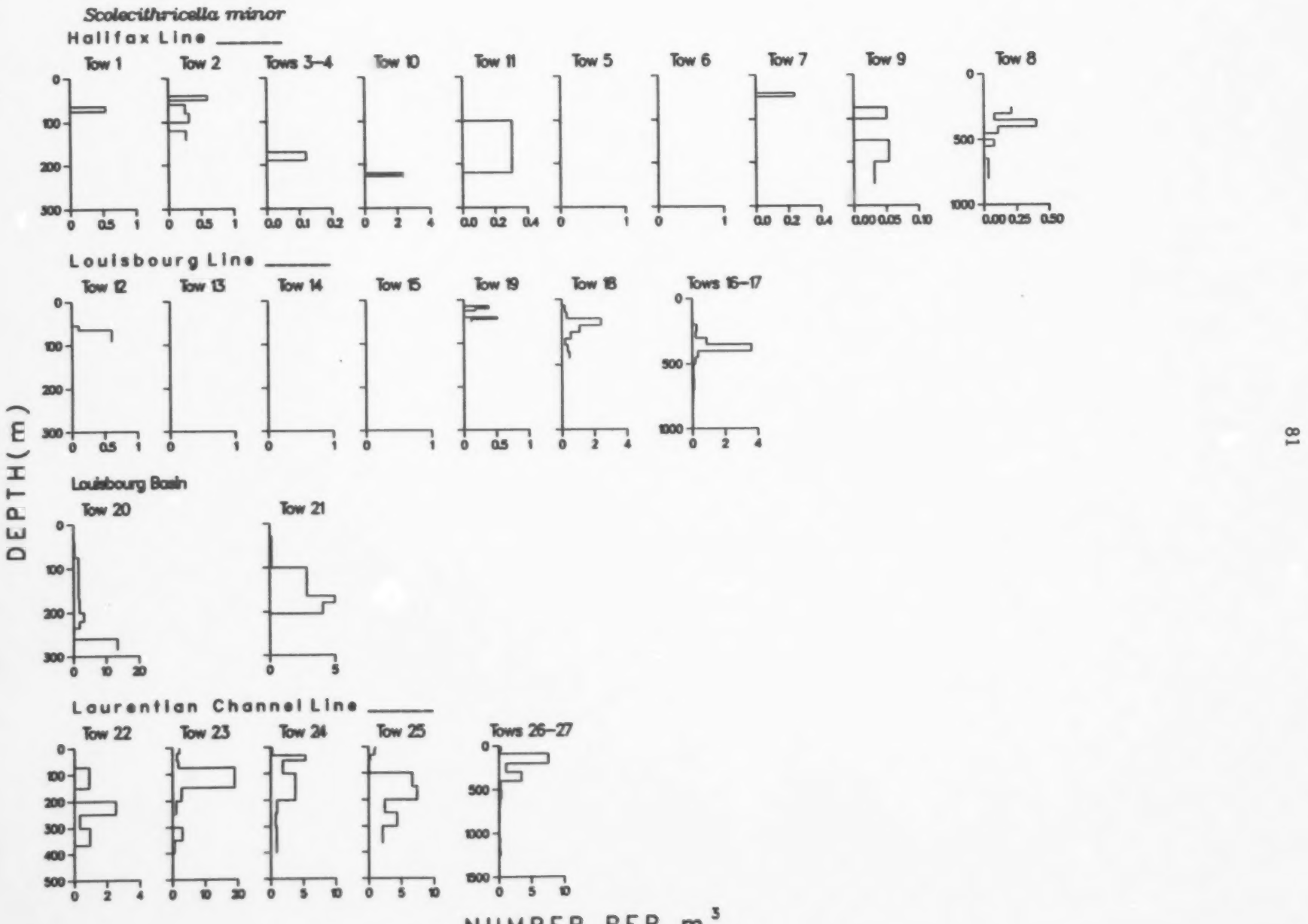

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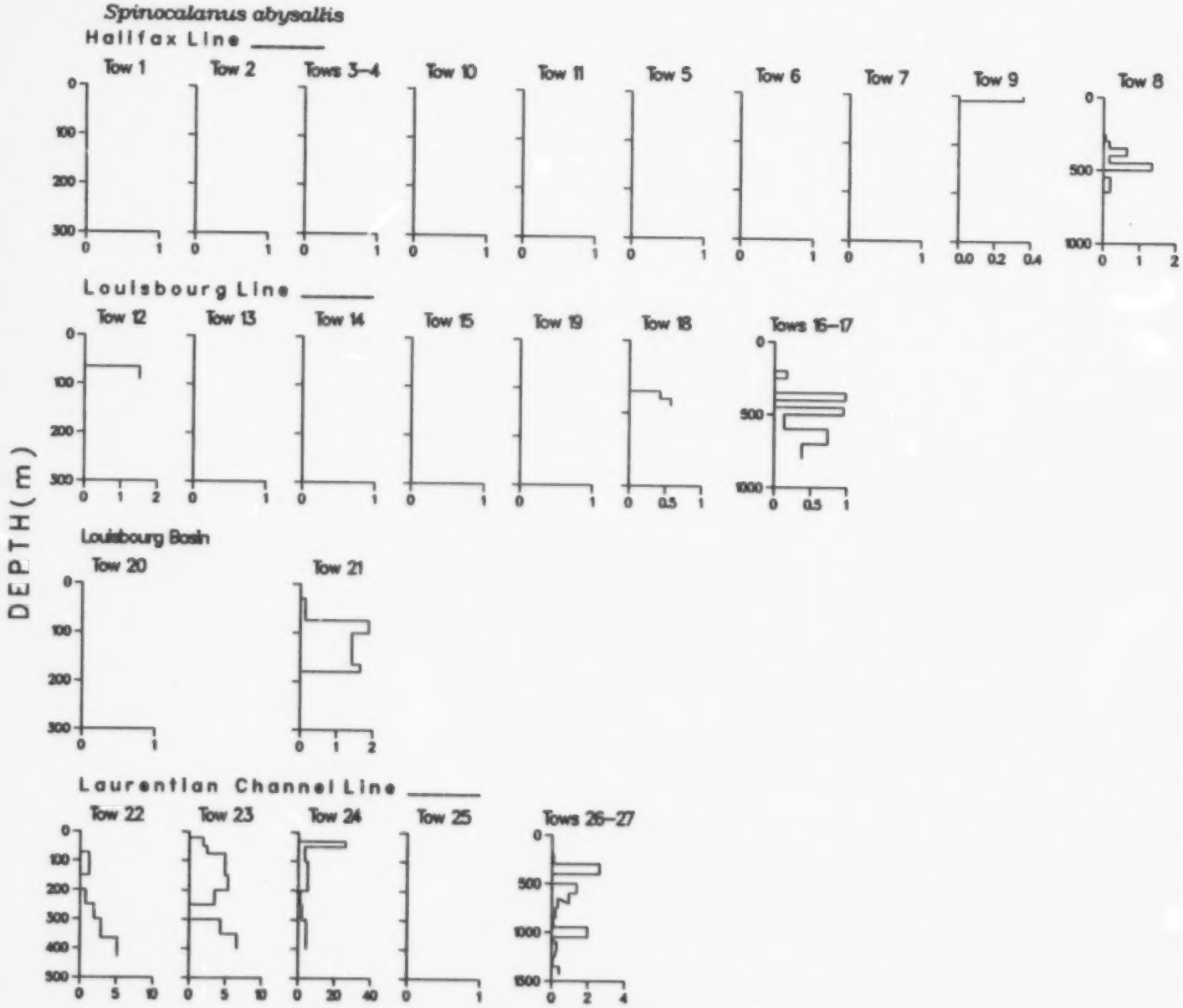

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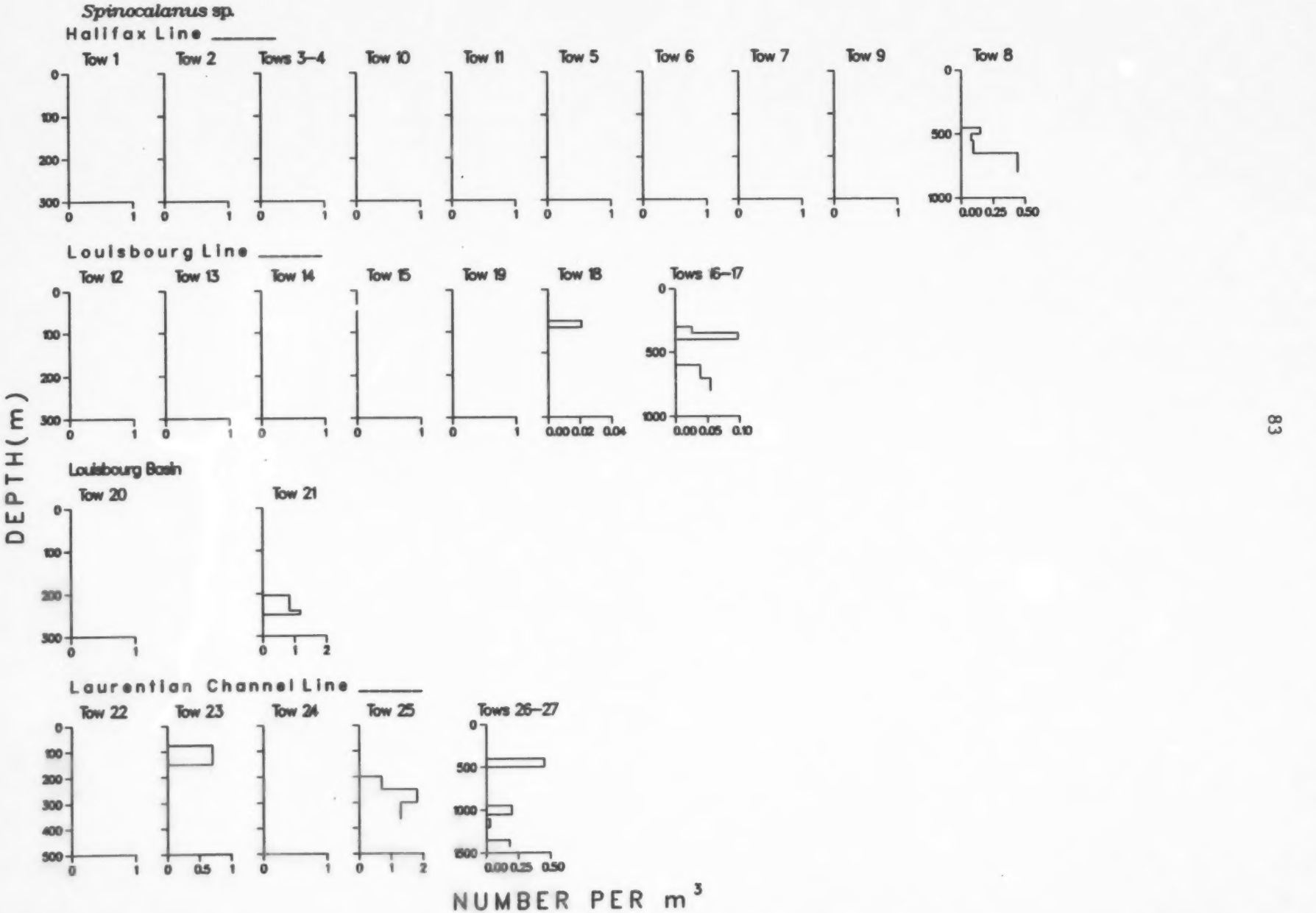

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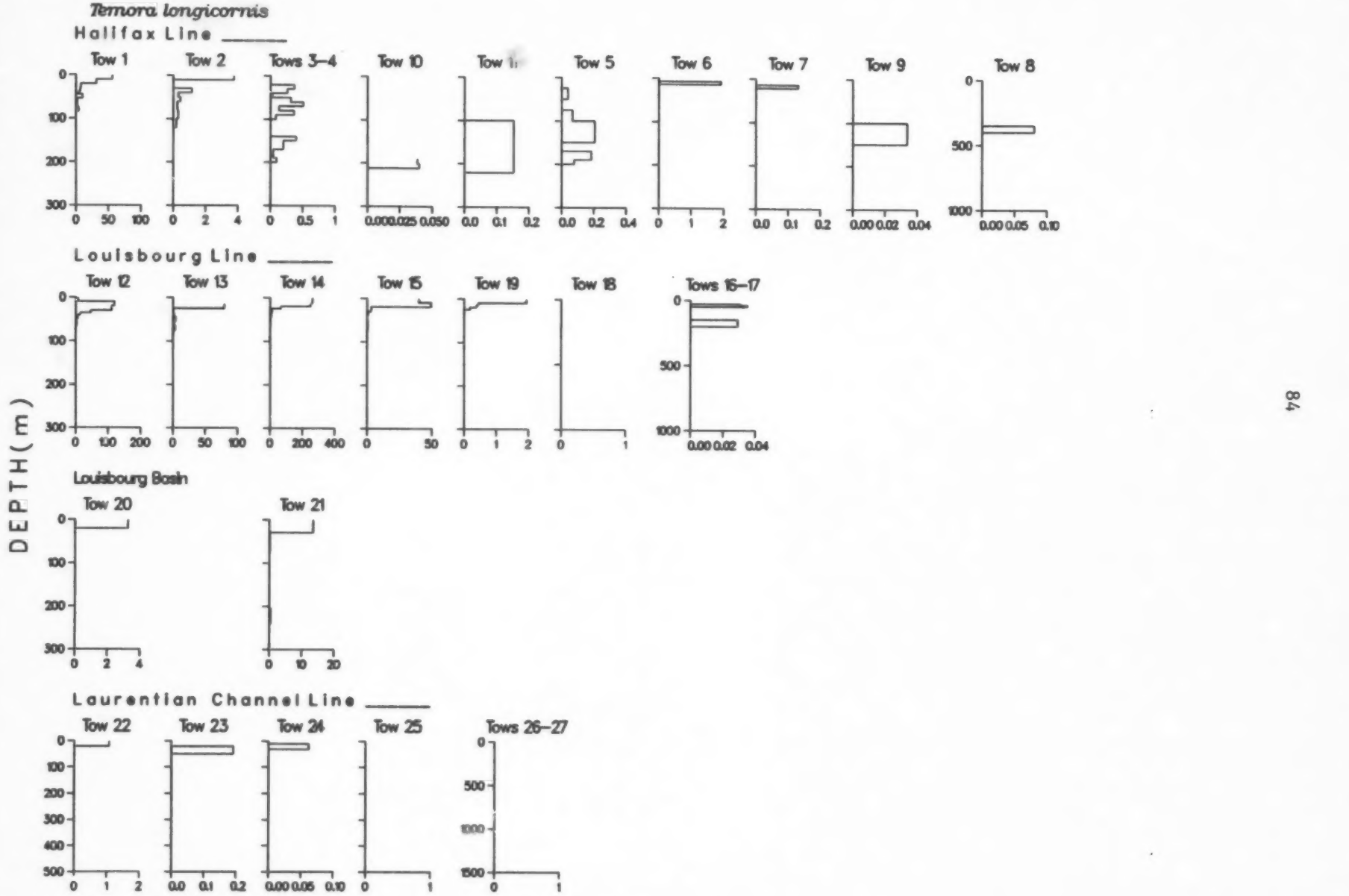

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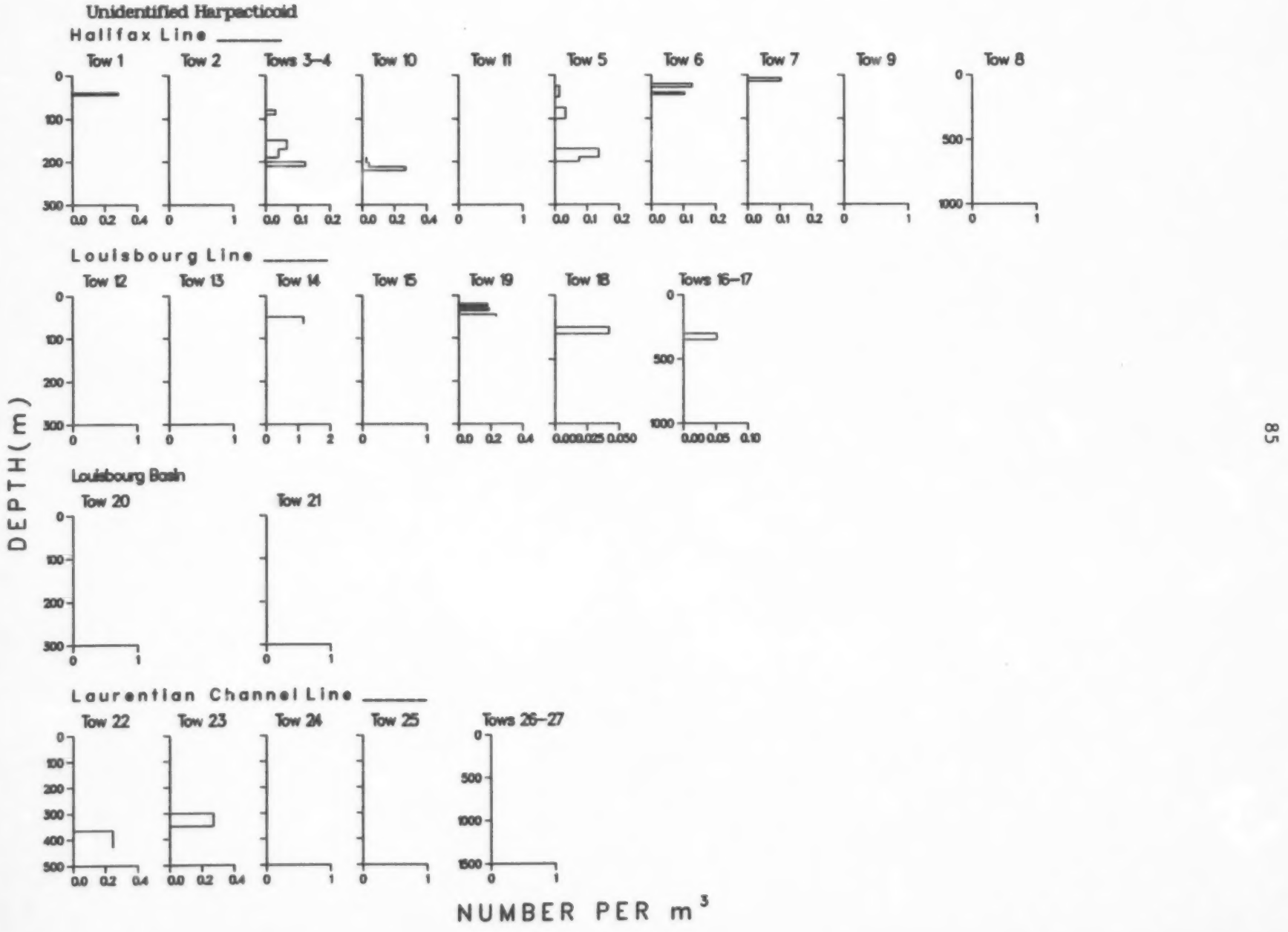

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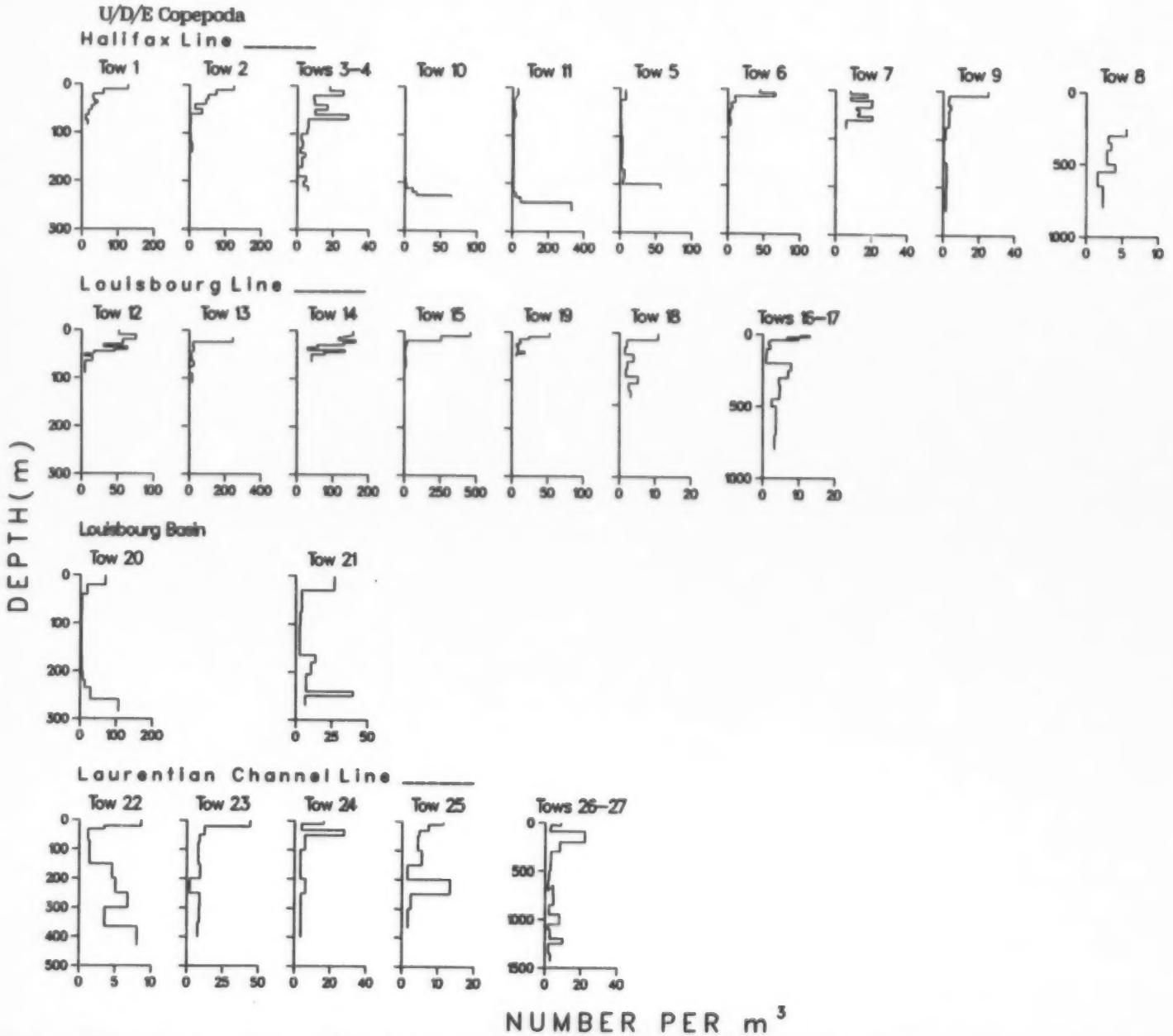

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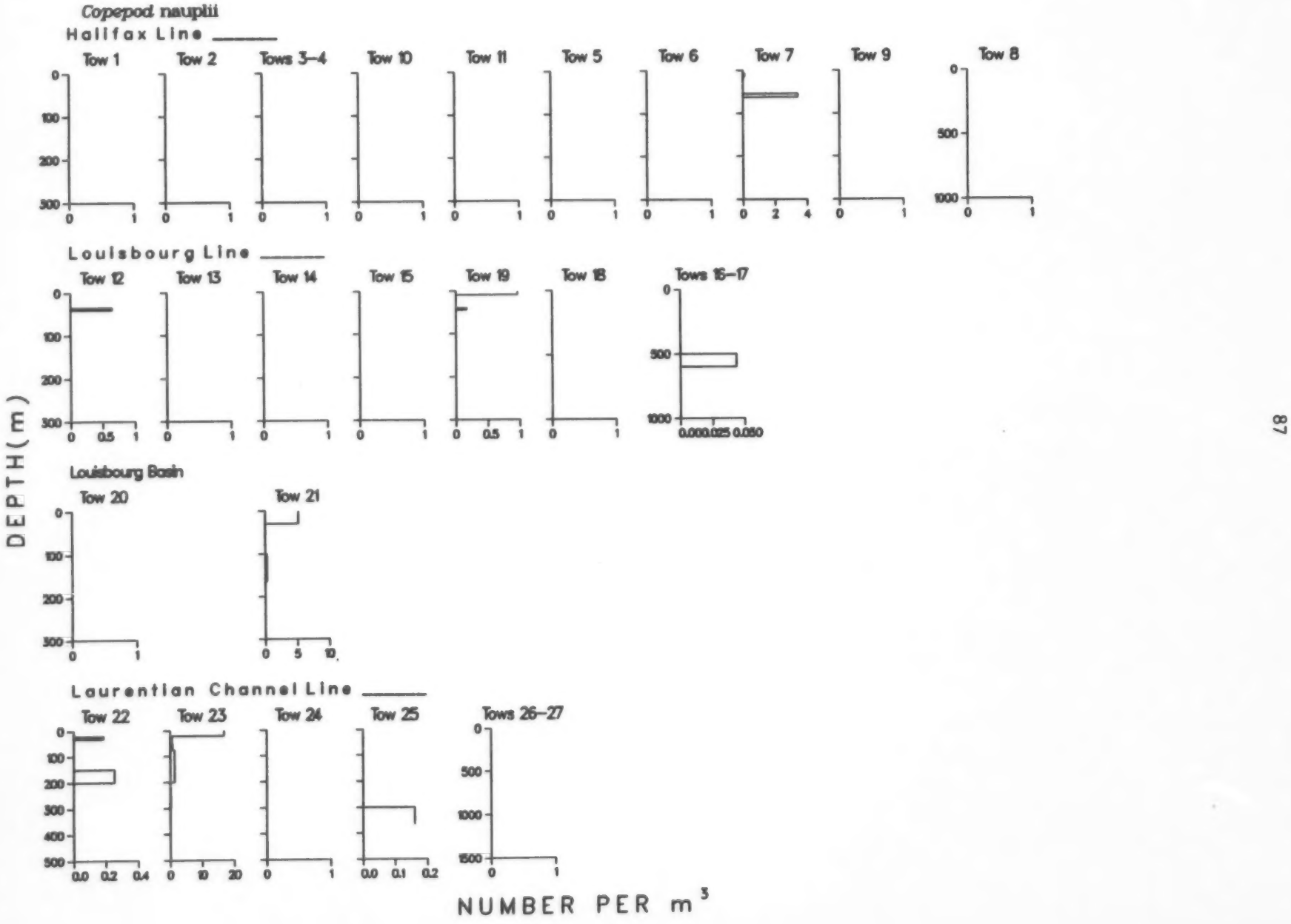


Fig. 4. Length frequencies for: a) amphipoda;
b) mysidacea;
euphausiacea c) *Meganyctiphanes norvegica;*
d) *Thysanoessa inermis;*
e) *T. longicaudata;*
f) Chaetognatha;
and three fish g) *Benthosema glaciale;*
h) *Cyclothone* sp.;
i) *Merluccius bilinearis*).

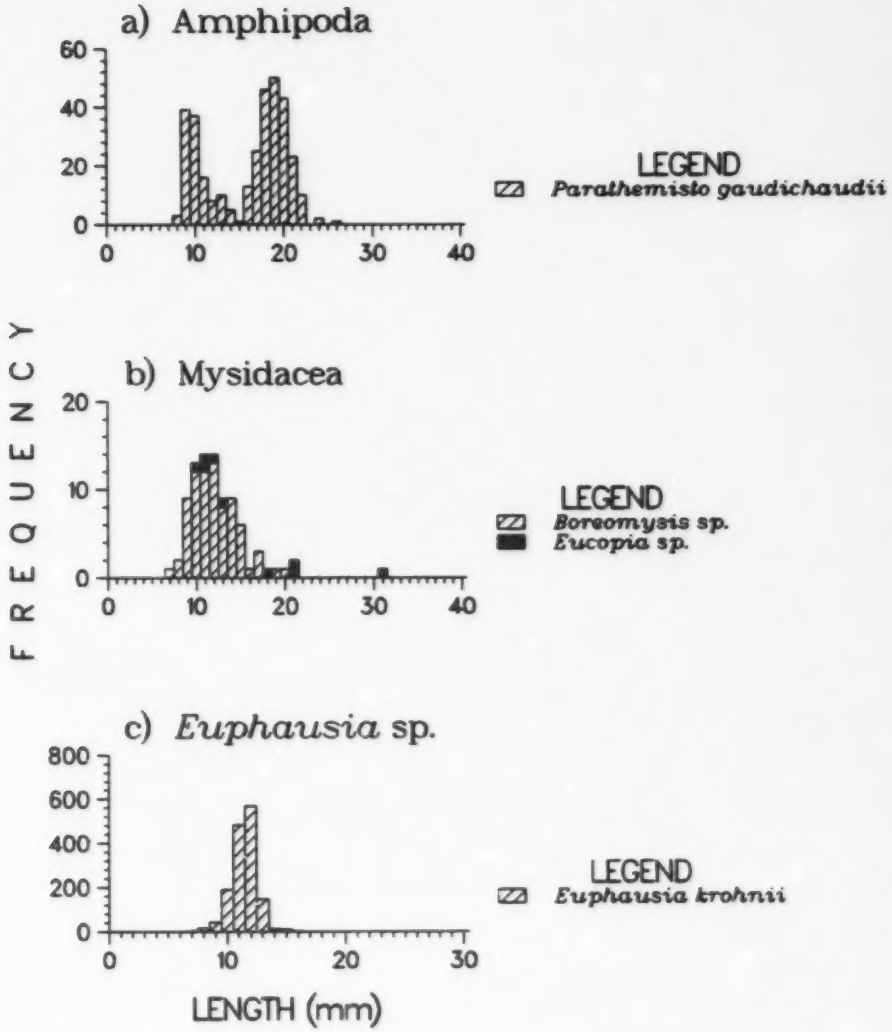
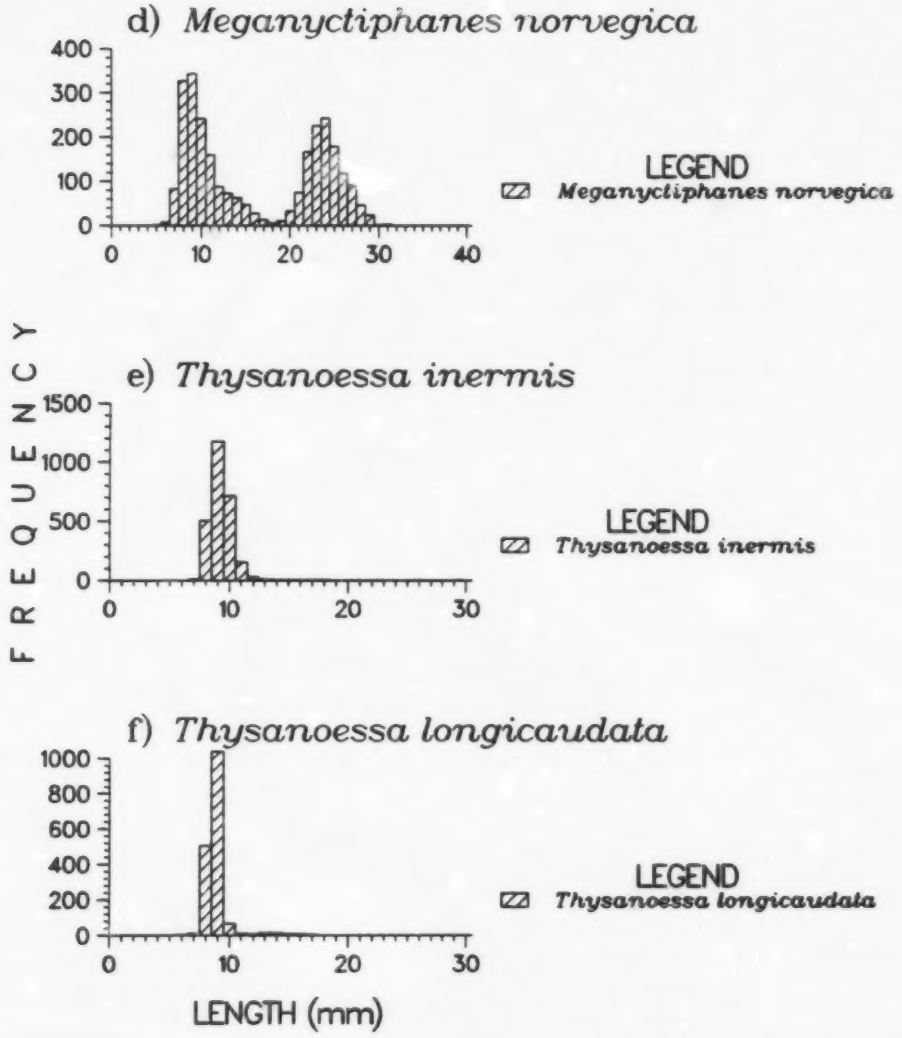


Fig. 4. Continued



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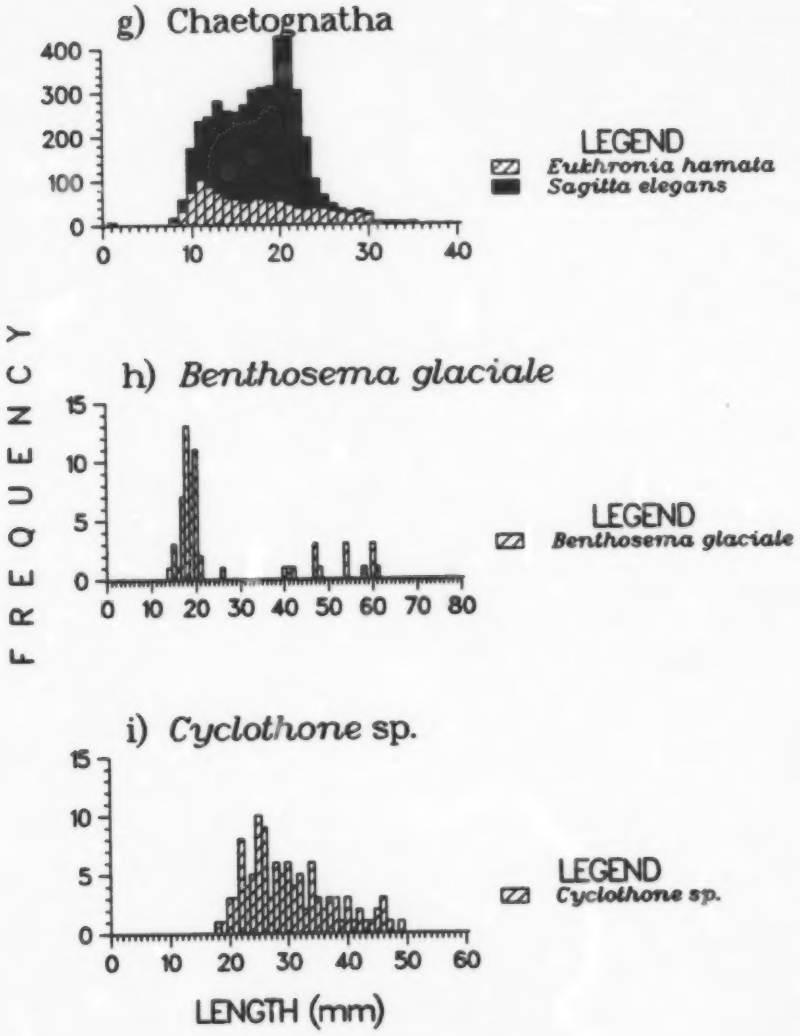

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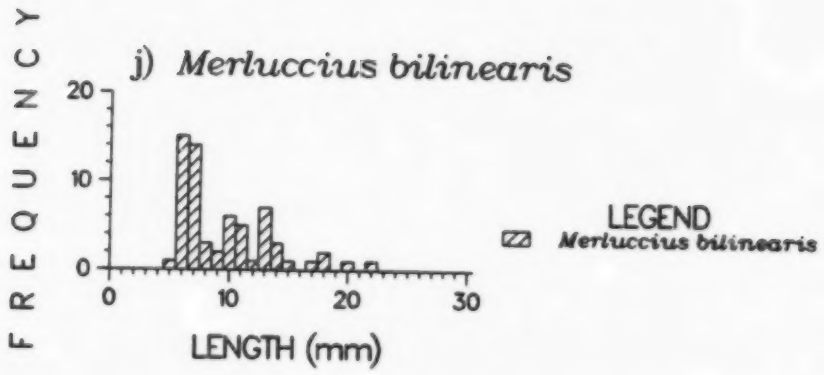

Fig. 4. Continued

Table 2. Centroid ± standard deviations for length measurements(mm) of stages of *Calanus* spp..

Calanus finmarchicus

Sample	Male	Female	V	IV	III	II	I
	Cent. ± S.D. (N)	Cent. ± S.D. (N)	Cent. ± S.D. (N)	Cent. ± S.D. (N)	Cent. ± S.D. (N)	Cent. ± S.D. (N)	Cent. ± S.D. (N)
10-2			2.170 ± .154 (357)	1.660 ± .189 (23)			
10-3		2.581 ± .173 (69)	2.190 ± .151 (447)	1.592 ± .106 (18)			
10-4		2.519 ± .145 (38)	2.179 ± .159 (459)	1.723 ± .232 (33)			
10-5		2.504 ± .170 (10)	2.198 ± .154 (478)	1.956 ± .206 (23)			
10-6			2.162 ± .145 (483)	1.930 ± .236 (20)			
10-7			2.172 ± .158 (397)	1.948 ± .156 (23)			
10-8		2.464 ± .161 (14)	2.193 ± .152 (541)	1.824 ± .250 (15)			
10-9		2.583 ± .199 (24)	2.128 ± .154 (132)	1.584 ± .189 (21)			
10-10			2.109 ± .177 (35)	1.584 ± .146 (22)			
11-2			2.197 ± .163 (376)	1.965 ± .195 (10)			
11-3			2.172 ± .154 (577)	1.971 ± .143 (31)			
11-4		2.467 ± .154 (11)	2.156 ± .158 (287)	1.839 ± .211 (16)			
11-5		2.583 ± .155 (30)	2.161 ± .169 (169)	1.692 ± .220 (27)			
11-6		2.524 ± .164 (46)	2.155 ± .167 (180)				
11-7		2.480 ± .171 (88)	2.145 ± .169 (233)	1.604 ± .114 (22)			
11-8		2.478 ± .126 (46)	2.171 ± .168 (240)	1.552 ± .180 (26)			
11-10			2.154 ± .169 (161)	1.825 ± .236 (12)			
20-2			2.178 ± .172 (127)	2.001 ± .103 (47)			
20-3			2.155 ± .153 (105)	2.021 ± .072 (89)			
20-4			2.154 ± .157 (145)	2.022 ± .077 (106)			
20-5			2.154 ± .147 (96)	2.024 ± .075 (76)			
20-6			2.143 ± .158 (97)	2.017 ± .099 (126)			
20-7			2.245 ± .218 (54)	1.998 ± .119 (44)			
20-8			2.193 ± .174 (102)	2.016 ± .098 (54)			
20-9		2.652 ± .194 (45)	2.241 ± .189 (154)	1.839 ± .172 (66)	1.218 ± .075 (14)	.818 ± .036 (18)	
20-10	2.400 ± .134 (11)	2.548 ± .169 (62)	2.202 ± .188 (57)	1.790 ± .175 (79)	1.217 ± .061 (37)	.871 ± .039 (43)	.630 ± .039 (42)

Calanus glacialis

Sample	V	IV
	Cent. ± S.D. (N)	Cent. ± S.D. (N)
10-2	2.761 ± .205 (12)	
10-3	2.998 ± .325 (26)	2.370 ± .143 (19)
10-4	3.019 ± .313 (34)	2.295 ± .106 (30)
10-5	2.912 ± .256 (38)	2.370 ± .170 (27)
10-6	2.902 ± .280 (44)	2.349 ± .136 (33)
10-7	2.891 ± .267 (31)	2.308 ± .105 (26)
10-8	2.980 ± .314 (56)	2.364 ± .139 (26)
11-2	2.734 ± .183 (31)	2.354 ± .135 (24)
11-3	2.886 ± .254 (60)	2.338 ± .141 (37)
11-4	2.937 ± .259 (23)	2.354 ± .142 (21)
11-5	2.835 ± .202 (14)	
11-6	2.695 ± .113 (10)	2.377 ± .194 (10)
11-7	2.729 ± .170 (13)	
11-10	2.797 ± .198 (17)	2.357 ± .282 (14)
20-2	3.048 ± .291 (64)	2.318 ± .109 (103)
20-3	3.072 ± .276 (65)	2.318 ± .116 (145)
20-4	3.022 ± .269 (53)	2.341 ± .135 (151)
20-5	3.003 ± .285 (35)	2.324 ± .131 (128)
20-6	2.994 ± .239 (43)	2.294 ± .107 (120)
20-7	3.167 ± .251 (19)	2.340 ± .165 (53)
20-8	2.897 ± .265 (41)	2.343 ± .141 (80)
20-9	2.900 ± .388 (32)	2.354 ± .129 (34)
20-10		2.322 ± .127 (29)

Calanus hyperboreus

Sample	IV	III	II
	Cent. ± S.D. (N)	Cent. ± S.D. (N)	Cent. ± S.D. (N)
11-2		3.169 ± .211 (11)	
11-3		3.086 ± .165 (12)	
11-4		3.179 ± .159 (11)	
20-2	4.500 ± .329 (23)	3.265 ± .213 (78)	
20-3	4.513 ± .225 (13)	3.291 ± .192 (86)	
20-4	4.650 ± .284 (17)	3.257 ± .179 (119)	
20-5		3.281 ± .178 (91)	
20-6		3.240 ± .171 (105)	2.253 ± .120 (17)
20-7		3.300 ± .179 (26)	2.258 ± .124 (23)
20-8	4.348 ± .527 (18)	3.296 ± .176 (75)	
20-9		3.296 ± .120 (23)	
20-10		3.272 ± .111 (23)	

Table 2. Number and biomass m^{-3} and m^{-2} for samples taken with the BIONESS over the Nova Scotian shelf. Depth1 is the depth at which the sampling started and Depth2 is the depth when it stopped for each sample. Volume of water filtered and total biomass m^{-3} for each depth strata sampled, date of the sample and the latitude and longitude for the tows are given.

TOW 1 17/09/85 1800H	44 21.24 N	63 17.55									
SAMPLE	1	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	.0	10.0	20.0	30.0	35.0	40.0	45.0	55.0	65.0	75.0	
DEPTH2 (M)	10.0	20.0	30.0	35.0	40.0	45.0	55.0	65.0	75.0	85.0	
VOLUME OF WATER SAMPLED (M3)	50.	91.	83.	45.	50.	47.	78.	111.	118.	66.	
TOTAL BIOMASS (G/M3)	.199	.101	.523	.202	.220	.157	.067	.160	.194	.175	17.088
EUPHAUSIACEA BIOMASS (G/M3)	.000	.000	.000	.000	.001	.002	.002	.002	.001	.002	

SPECIES	NUMBER PER CUBIC METER										#/M2
UNIDENTIFIED/DAMAGED MEDUSA	.00	.00	.00	.00	.00	.28	.00	.00	.00	.00	1.
LIMACINA BULIMOIDES	.00	.00	488.94	3.89	.00	.28	.00	.00	.00	.00	4914.
LIMACINA HELICOIDES	47.22	74.01	10.29	1.41	3.21	1.42	5.47	1.92	1.63	.00	1435.
LIMACINA INFLATA	.00	3.52	.00	.00	.00	.00	.00	.00	.00	.81	43.
LIMACINA LESUEURII	51.51	162.11	257.34	.71	2.40	.57	1.37	2.56	1.08	2.42	4802.
LIMACINA TROCHIFORMIS	12.88	52.86	393.73	1.06	3.21	.28	.34	.00	.00	.81	4628.
GYMNOSOMATA	.00	7.05	5.15	.00	.00	.00	.00	.00	.00	.00	121.
BIVALVE LARVAE	8.58	.00	.00	.00	.00	.00	.68	.00	.00	.00	96.
PODON LEUCKARTI	.00	.00	.00	.35	.00	.57	1.37	.64	.54	.00	34.
DAMAGED CLADOCERA	4.29	3.52	.00	.35	.00	.28	.00	.00	.00	.00	81.
PODON INTERMEDIUS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.
ACARTIA LONGIREMIS	25.75	14.10	7.72	2.47	7.21	.85	13.68	6.41	1.08	.81	748.
ANOMALOCERA PATERSONII	.00	.00	.00	.71	.00	.00	.00	.00	.00	.00	3.
CALANUS FINMARCHICUS-TOTAL	94.43	370.64	437.47	103.49	32.06	6.52	18.46	137.10	137.85	101.66	13673.
CALANUS FINMARCHICUS (D)	.00	10.57	56.61	13.77	3.21	.00	.34	1.28	.54	1.61	794.
CALANUS FINMARCHICUS (G)	.00	10.57	20.59	3.53	5.61	.00	.00	.64	.00	.00	363.
CALANUS FINMARCHICUS (S)	.00	7.05	2.57	1.77	.00	.57	.00	.00	2.71	1.61	155.
CALANUS FINMARCHICUS VIM	.00	10.57	5.15	.71	.00	.00	.00	.00	.54	.00	178.
CALANUS FINMARCHICUS VIF	.00	28.19	79.77	19.07	9.62	.57	.34	1.92	3.25	3.23	1313.
CALANUS FINMARCHICUS V	17.17	197.36	337.11	83.00	20.84	4.82	16.75	131.97	117.05	85.53	9572.
CALANUS FINMARCHICUS IV	55.80	77.53	12.87	.71	.00	1.13	1.03	3.20	16.80	12.91	1810.
CALANUS FINMARCHICUS III	12.88	21.15	2.57	.00	.00	.00	.00	.00	.00	.00	369.
CALANUS FINMARCHICUS II	8.58	17.62	.00	.00	.00	.00	.00	.00	.00	.00	262.
CALANUS FINMARCHICUS I	.00	17.62	.00	.00	.00	.00	.00	.00	.00	.00	176.
CALANUS FINMARCHICUS DAMAGED	.00	.00	.00	.00	.00	.00	.34	.00	.00	.00	3.
CALANUS GLACIALIS V	.00	.00	.00	.00	.00	.00	.34	3.20	8.13	3.23	149.
CALANUS GLACIALIS IV	.00	.00	.00	.71	.00	.28	.68	3.84	5.42	2.42	128.
CALANUS GLACIALIS III	.00	.00	.00	.35	.00	.00	.00	.00	.00	.00	1.
CALANUS GLACIALIS DAMAGED	.00	.00	.00	.00	.00	.00	.34	.00	.00	.00	3.
CALANUS HYPERBOREUS-TOTAL	.00	.00	.00	.00	.00	.00	.68	7.05	5.42	3.23	163.
CALANUS HYPERBOREUS V	.00	.00	.00	.00	.00	.00	.00	.64	.00	.00	6.
CALANUS HYPERBOREUS IV	.00	.00	.00	.00	.00	.00	.68	4.48	3.79	2.42	113.
CANDACIA ARMATA	.00	.00	.00	.35	.00	.00	.00	.00	.00	.00	1.
CENTROPAGES TYPICUS	120.19	3.52	.00	1.41	3.21	1.99	2.74	2.56	2.71	.00	1350.
EUCHEATA NORVEGICA	.00	.00	.00	.00	.00	.00	.00	.64	.00	.00	6.
EURYTEMORA HERDMANI	42.92	14.10	18.01	8.48	15.23	3.12	15.73	3.20	1.08	.81	1092.
LUCICUTIA FLAVICORNIS	4.29	.00	.00	.00	.00	.00	.00	.00	.00	.00	42.
METRIDIA LUCENS	.00	7.05	.00	2.12	.00	.00	1.37	5.13	9.75	24.21	485.
OITHONA ATLANTICA	.00	.00	7.72	3.18	.00	.00	.34	2.56	.54	.81	135.
OITHONA SIMILIS	.00	7.05	7.72	4.59	2.40	5.11	5.47	3.20	18.97	9.68	581.
PARACALANUS PARVUS	184.57	49.34	2.57	.00	3.21	.85	1.71	.00	1.63	.81	2426.
PSEUDOCALANUS MINUTUS	592.35	74.01	15.44	10.24	13.63	5.11	13.33	9.61	7.59	11.30	7381.
SCOLECITHRICELLA MINOR	.00	.00	.00	.00	.00	.00	.00	.00	.54	.00	5.
TEMORA LONGICORNIS	55.80	31.72	7.72	6.71	6.41	3.40	10.26	1.92	2.17	4.03	1218.
UNID/DAM/EXO COPEPOD	128.77	59.91	30.88	34.61	44.09	35.18	27.69	19.22	18.84	16.14	3503.
UNIDENTIFIED HARPACTICOID	.00	.00	.00	.00	.00	.28	.00	.00	.00	.00	1.
PARATHEMISTO SP.	.00	3.52	.00	.00	.00	3.97	.00	1.28	.00	.00	71.
M. NORVEGICA CALYPTOSIS	.00	3.52	.00	.00	.00	.00	.00	.00	.00	.00	35.
M. NORVEGICA FURCILIA	.00	.00	.00	.00	32.06	24.68	5.81	.64	.00	.00	348.
THYSANOESSA RASCHII FURCILIA	.00	.00	.00	.00	.00	3.97	.00	.00	.00	.00	19.
T. LONGICAUDATA FURCILIAE	.00	.00	5.15	7.77	44.09	4.82	.34	1.28	.54	.00	356.
THYSANOESSA SP. FURCILIAE	.00	.00	.00	3.18	.00	.57	.00	.00	.00	.00	18.
EUPHAUSIID EGGS	68.68	14.10	.00	.00	.00	.00	.00	.00	.00	.00	831.
DAMAGED EUPHAUSID	.00	.00	.00	.35	.00	2.27	.68	.00	.00	.81	28.
DECAPOD LARVAE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.
SAGITTA SETOSA	.00	.00	.00	.00	.00	.28	.00	.00	.00	.00	1.
OIKOPLEURA SP.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.
OIKOPLEURA VANHOEFFENI	.00	.00	.00	.00	.00	.00	.00	.00	.54	.00	5.
DAMAGED APPENDICULARIA	.00	.00	.00	.00	.00	.00	.34	.00	.00	.00	3.

TOW 1 17/09/85 1800H (CONTINUED)

SAMPLE	1	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER										#/M2
LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON											
UNIDENTIFIED SIPHONOPHORE	.000	.000	.000	.000	.000	.000	.000	.009	.000	.000	.090
CTENOPHORA	.000	.000	.000	.000	.000	.000	.000	.018	.000	.000	.180
CLIONE SP.	.000	.000	.000	.022	.000	.043	.026	.000	.008	.000	.664
TOMOPTERIS SP.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.015	.151
AMPHIPODA	.000	.000	.000	.000	.020	.021	.026	.018	.000	.000	.643
PARATHEMISTO GAUDICHAUDII	.000	.000	.000	.000	.020	.021	.026	.018	.000	.000	.643
EUPHAUSIACEA	.040	.000	.000	.044	.240	.574	.282	.486	.229	.303	17.695
MEGANYCTIPHANES NORVEGICA	.000	.000	.000	.000	.000	.106	.026	.000	.008	.000	.873
STYLOCHEIRON SP.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.303	3.026
THYSANOESSA INERMIS	.040	.000	.000	.022	.100	.404	.256	.486	.220	.000	12.666
THYSANOESSA LONGICAUDATA	.000	.000	.000	.022	.140	.064	.000	.000	.000	.000	1.131
CHAETOGNATHA	.000	.000	.181	.839	1.002	.319	.282	1.649	3.489	4.191	108.708
SAGITTA ELEGANS	.000	.000	.181	.839	1.002	.319	.282	1.649	3.489	4.191	108.708
UNIDENTIFIED	.000	.000	.000	.000	.381	.213	.026	.000	.034	.000	3.563
PICES	.000	.000	.012	.331	.281	.021	.026	.000	.000	.000	3.542
MERLUCCIUS BILINEARIS	.000	.000	.012	.331	.281	.021	.026	.000	.000	.000	3.542

TOW 2 17/09/85 2230H	44 12.54 N	63 10.11								
SAMPLE	1	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	.0	10.0	20.0	30.0	40.0	50.0	60.0	80.0	100.0	120.0	
DEPTH2 (M)	10.0	20.0	30.0	40.0	50.0	60.0	80.0	100.0	120.0	140.0	
VOLUME OF WATER SAMPLED (M3)	86.	115.	105.	92.	108.	91.	211.	256.	134.	75	
TOTAL BIOMASS (G/M3)	.436	.383	.446	.303	.134	.096	.063	.073	.052	.058	22.988
EUPHAUSIACEA BIOMASS (G/M3)	.139	.165	.128	.171	.071	.051	.025	.033	.026	.016	

SPECIES	NUMBER PER CUBIC METER										#/M2
MEDUSA	.00	.00	.00	.00	.00	.00	1.26	.00	.00	.00	8.
UNIDENTIFIED/DAMAGED MEDUSA	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	25.
LIMACINA BULIMOIDES	3.73	.00	.00	1.74	.89	1.75	.76	.31	.00	.00	102.
LIMACINA HELICOIDES	3.73	.00	.00	5.80	.30	1.31	.25	.31	.20	.00	126.
LIMACINA LESUEURII	11.19	1.86	.00	6.38	.30	3.94	.51	.94	.40	.27	278.
LIMACINA TROCHIFORMIS	7.46	5.57	3.05	6.96	1.19	2.19	1.52	.31	1.00	.27	325.
LIMACINA SP.	.00	.00	.00	.00	.00	.00	.00	.31	.00	.00	6.
GYMNOSOMATA	.00	1.86	1.52	.58	.59	.44	.00	.00	.60	1.07	83.
ACARTIA LONGIREMIS	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00	3.
CALANUS FINMARCHICUS-TOTAL	82.05	64.93	38.48	61.45	36.15	31.98	22.50	19.38	7.36	25.33	4561.
CALANUS FINMARCHICUS (D)	.00	1.86	.00	1.16	2.37	1.31	.00	.63	.00	.53	90.
CALANUS FINMARCHICUS (G)	3.73	.00	7.62	2.32	2.07	.00	.00	.31	.00	.00	163.
CALANUS FINMARCHICUS (S)	.00	3.71	.00	.00	.30	.00	.51	.00	.00	.00	50.
CALANUS FINMARCHICUS VIM	.00	.00	.00	.00	.00	.00	.00	.00	.20	.27	9.
CALANUS FINMARCHICUS VIF	3.73	5.57	7.62	3.48	4.74	1.31	.51	.94	.00	.53	304.
CALANUS FINMARCHICUS V	22.38	14.84	15.24	54.49	30.22	29.35	17.95	15.94	6.17	21.60	2898.
CALANUS FINMARCHICUS IV	29.84	22.26	4.57	1.16	.89	.88	3.79	1.88	1.00	2.93	787.
CALANUS FINMARCHICUS III	18.65	12.99	3.05	.58	.00	.44	.25	.31	.00	.00	368.
CALANUS FINMARCHICUS II	.00	5.57	.00	.00	.00	.00	.00	.31	.00	.00	61.
CALANUS FINMARCHICUS I	7.46	3.71	.00	1.74	.30	.00	.00	.00	.00	.00	132.
CALANUS FINMARCHICUS DAMAGED	.00	.00	1.52	.00	.89	3.07	1.01	.31	.60	.27	98.
CALANUS GLACIALIS V	.00	.00	.00	.58	3.26	1.31	1.01	.63	1.00	.80	120.
CALANUS GLACIALIS IV	.00	.00	.00	.00	.89	1.75	1.26	2.50	1.00	1.07	142.
CALANUS GLACIALIS DAMAGED	.00	.00	.00	.00	.30	.00	.00	.00	.00	.00	2.
CALANUS HYPERBOREUS-TOTAL	.00	.00	.00	.00	.00	.00	1.52	.94	.40	.80	73.
CALANUS HYPERBOREUS V	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00	5.
CALANUS HYPERBOREUS IV	.00	.00	.00	.00	.00	.00	.76	.94	.40	.80	57.
CENTROPAGES TYPICUS	634.03	87.19	7.62	1.74	1.48	7.45	.51	2.19	.60	.53	7471.
CLAUSOCALANUS FURCATUS	7.46	159.54	112.76	4.64	5.33	2.63	.51	.63	.00	.53	2956.
EURYTEMORA HERDMANI	.00	1.86	.00	.00	.00	.44	.51	.00	.20	.00	37.
METRIDIA LONGA	.00	.00	.00	.00	.00	.44	.76	2.19	1.99	1.33	129.
METRIDIA LUCENS	3.73	3.71	6.10	11.59	11.26	33.73	15.92	23.13	16.52	12.80	2068.
OITHONA ATLANTICA	.00	.00	3.05	1.16	.59	1.75	9.10	17.19	3.18	4.53	745.
OITHONA SIMILIS	7.46	.00	.00	6.38	3.85	5.26	.76	.31	.20	.53	265.
PARACALANUS PARVUS	78.32	102.03	18.29	1.16	.89	4.82	.51	.00	.20	.80	2085.
PSEUDOCALANUS MINUTUS	197.67	122.43	121.90	30.14	9.78	12.71	3.79	2.19	1.99	4.00	5185.
SCOLECITHRICELLA MINOR	.00	.00	.00	.00	.59	.00	.25	.31	.00	.27	22.
TEMORA LONGICORNIS	3.73	.00	.00	1.16	.30	.44	.25	.31	.20	.00	71.
UNID/DAM/EXO COPEPOD	123.08	74.20	51.81	45.80	14.81	34.17	2.53	1.56	3.38	7.20	3732.
PARATHEMISTO ABYSSORUM	.00	.00	.00	.00	.89	.00	.00	.00	.00	.00	8.
PARATHEMISTO SP.	.00	.00	1.52	2.90	1.19	.44	.00	.31	.20	.00	70.
M. NORVEGICA FURCILIA	18.65	27.83	25.90	2.32	.30	.88	.00	.00	.00	.00	758.
THYSANOESSA INERMIS FURCILIAE	.00	.00	.00	.00	.59	.44	.25	.31	.60	.00	33.
T. LONGICAUDATA FURCILIAE	3.73	.00	3.05	.58	.30	.00	.00	.00	.00	.00	76.
EUPHAUSIID EGGS	3.73	51.94	10.67	.00	.00	.00	.25	.94	.40	1.07	716.
EUPHAUSIID NAUPLII	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00	5.
DAMAGED FURCILIAE	.00	.00	3.05	.00	.00	.00	.25	.31	.00	.00	41.
SAGITTA SP.	3.73	.00	.00	.00	.00	.00	.00	.00	.00	.00	37.
SAGITTA SETOSA	.00	.00	.00	.58	.00	.00	.00	.00	.00	.00	5.

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

UNIDENTIFIED SIPHONOPHORE	.000	.000	.000	.000	.000	.000	.043	.000	.000	.000	.8
UNIDENTIFIED MEDUSA	.851	.009	.010	.000	.000	.000	.000	.000	.000	.000	8.6
CTENOPHORA	.870	.539	.867	.293	.019	.000	.000	.000	.000	.013	18.1

TOW 2 17/09/85 2230H (CONTINUED)

SAMPLE	1	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER										#/M2
CLIONE SP.	.000	.000	.010	.000	.000	.000	.000	.000	.000	.000	.095
AMPHIPODA	.023	.009	.067	.033	.009	.033	.005	.004	.007	.000	2.056
PARATHEMISTO GAUDICHAUDII	.023	.009	.067	.033	.009	.033	.005	.004	.007	.000	2.056
EUPHAUSIACEA	3.427	2.339	2.895	8.239	2.250	.778	.972	2.723	1.201	.587	308.925
MEGANYCTIPHANES NORVEGICA	3.427	2.313	2.771	.587	.306	.274	.109	.059	.097	.067	103.399
THYSANOESSA INERMIS	.000	.026	.124	7.652	1.944	.504	.863	2.664	1.104	.520	205.525
CHAETOGNATHA	.606	.478	2.571	1.891	.222	.110	.137	.156	.179	.360	75.444
SAGITTA ELEGANS	.606	.478	2.571	1.891	.222	.110	.137	.156	.179	.360	75.444
PICES	.117	.070	.029	.000	.000	.011	.009	.000	.000	.000	2.446
MERLUCCIUS BILINEARIS	.117	.070	.029	.000	.000	.011	.009	.000	.000	.000	2.446

TOW 3 18/09/85 0830H	43 59.10 N 62 58.87										
SAMPLE	1	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	
DEPTH2 (M)	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	
VOLUME OF WATER SAMPLED (M3)	51.	48.	54.	58.	34.	29.	26.	39.	33.	36.	
TOTAL BIOMASS (G/M3)	.100	.014	.017	.026	.048	.011	.032	.006	.008	.005	2.765
EUPHAUSIACEA BIOMASS (G/M3)	.003	.003	.006	.009	.019	.004	.019	.000	.003	.002	

SPECIES	NUMBER PER CUBIC METER										#/M2
LIMACINA BULIMOIDES	.00	.00	.00	.00	.03	.00	.17	.00	.00	.00	1.
LIMACINA HELICOIDES	.00	.10	.00	.00	.03	.00	.17	.21	.09	.00	5.
LIMACINA INFLATA	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.
LIMACINA LESUEURII	.00	.42	.14	.00	.00	.03	.25	.03	.03	.00	9.
LIMACINA TROCHIFORMIS	.00	.21	.19	.00	.00	.00	.17	.00	.00	.00	5.
GYMNOSOMATA	.00	.42	.09	.03	.09	.03	.76	1.15	1.73	1.44	57.
BIVALVE LARVAE	.78	.10	.00	.02	.00	.00	.00	.03	.00	.00	9.
PODON LEUCKARTI	.00	.00	.00	.00	.03	.03	.00	.00	.03	.00	.
ACARTIA LONGIREMIS	.00	.00	.09	.07	.18	.03	.17	.10	.09	.00	8.
CALANUS FINMARCHICUS-TOTAL	1.56	2.60	2.45	2.38	1.56	.59	2.04	.69	.55	.72	151.
CALANUS FINMARCHICUS (D)	.00	.00	.05	.07	.10	.00	.00	.00	.03	.00	1.
CALANUS FINMARCHICUS (G)	.00	.00	.00	.00	.00	.03	.00	.03	.00	.03	.
CALANUS FINMARCHICUS (S)	.00	.10	.05	.12	.00	.00	.00	.00	.00	.00	2.
CALANUS FINMARCHICUS VIM	.00	.10	.00	.03	.00	.00	.00	.00	.00	.00	1.
CALANUS FINMARCHICUS VIF	.00	.10	.09	.19	.00	.00	.00	.03	.03	.03	4.
CALANUS FINMARCHICUS V	.78	.52	.79	1.90	.94	.31	1.53	.15	.24	.44	76.
CALANUS FINMARCHICUS IV	.00	.83	.97	.24	.50	.21	.51	.44	.27	.22	41.
CALANUS FINMARCHICUS III	.78	.63	.51	.02	.12	.07	.00	.05	.00	.00	21.
CALANUS FINMARCHICUS II	.00	.42	.09	.00	.00	.00	.00	.03	.00	.03	5.
CALANUS FINMARCHICUS DAMAGED	.78	.00	.28	.00	.00	.00	.00	.28	.09	.11	15.
CALANUS GLACIALIS V	.00	.10	.00	.02	.00	.00	.08	.00	.00	.00	2.
CALANUS GLACIALIS IV	.00	.00	.00	.02	.06	.07	.17	.00	.00	.03	3.
CALANUS HYPERBOREUS-TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.
CALANUS HYPERBOREUS IV	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.
CALANUS SP.	.00	.00	.00	3.98	.74	.07	1.02	.00	.00	.00	58.
CALANUS MINOR	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	1.
CANDACIA ARMATA	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.
CENTROPAGES TYPICUS	20.27	4.48	1.06	.21	2.38	.31	1.70	.74	.03	.14	313.
CLAUSOCALANUS FURCATUS	.00	2.81	.88	.05	.32	.10	.17	.05	.00	.00	44.
CLYTEMNESTRA SCUTELLATA	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.
EUCHEATA SP.	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.
EURYTEMORA HERDMANI	.78	.00	.09	.22	.29	.21	.34	.13	.09	.06	22.
METRIDIA LONGA	.00	.42	.14	.16	.62	.00	.76	.00	.00	.03	21.
METRIDIA LUCENS	.00	.52	.42	.41	1.03	.03	.59	.21	.18	.47	38.
MICROCALANUS PYGMAEUS	.00	.00	.00	.00	.03	.00	.00	.00	.03	.00	.
OITHONA ATLANTICA	.00	.00	.28	.05	.26	.14	5.51	2.18	4.15	4.17	167.
OITHONA SIMILIS	.78	.21	.00	.33	.12	.14	1.19	.15	.27	.17	33.
PARACALANUS PARVUS	141.13	3.65	1.39	.69	1.00	.90	3.22	1.03	.48	.50	1539.
PARACALANUS/CLAUSOCALANUS	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.
PSEUDOCALANUS MINUTUS	3.90	2.92	.60	.17	.44	.34	1.19	.13	.33	.11	101.
TEMORA LONGICORNIS	.00	.00	.37	.26	.03	.31	.51	.13	.36	.08	20.
UNID/DAM/EXO COPEPOD	17.93	25.63	8.89	9.53	16.65	9.79	28.16	6.85	6.03	5.44	1341.
UNIDENTIFIED HARPACTICOID	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.
PARATHEMISTO ABYSSORUM	.00	.00	.05	.00	.06	.00	.08	.00	.09	.00	2.
PARATHEMISTO SP.	.78	.00	1.39	.76	.09	.07	.00	.00	.36	.03	34.
THYSANOESSA INERMIS FURCILIAE	.00	.10	.05	.07	.06	.00	.00	.00	.00	.00	2.
THYSANOESSA SP. CALYPTOSIS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.
EUPHAUSIID EGGS	.00	.83	.00	.00	.00	.00	.00	.00	.06	.00	9.
EUPHAUSIID NAUPLII	.00	.31	.09	.02	.00	.00	.00	.00	.00	.03	4.
DAMAGED FURCILIAE	.00	.73	.09	.07	.03	.00	.17	.00	.00	.00	10.
DECAPOD LARVAE	.00	.00	.05	.02	.00	.00	.00	.00	.03	.00	.
DECAPOD ZOEA-BRACHYURAN	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.
SAGITTA MAXIMA	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.

TOW 3 18/09/85 0830H (CONTINUED)

SAMPLE	1	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER										#/M2
LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON											
UNIDENTIFIED MEDUSA	.000	.000	.000	.000	.059	.000	.000	.000	.000	.000	588
CTENOPHORA	.156	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.559
AMPHIPODA	.000	.000	.000	.017	.000	.000	.000	.000	.030	.000	475
PARATHEMISTO GAUDICHAUDII	.000	.000	.000	.017	.000	.000	.000	.000	.030	.000	475
EUPHAUSIACEA	.019	.063	.093	.448	.471	.207	.382	.077	.061	.056	18.751
MEGANYCTIPHANES NORVEGICA	.019	.021	.056	.086	.147	.069	.191	.051	.061	.056	7.564
THYSANOESSA INERMIS	.000	.042	.037	.362	.324	.138	.191	.026	.000	.000	11.187
CHAETOGNATHA	.019	.042	.000	.103	.000	.000	.229	.026	.182	.000	6.011
SAGITTA ELEGANS	.000	.000	.000	.000	.000	.000	.000	.026	.000	.000	256
UNIDENTIFIED CHAETOGNATH	.019	.042	.000	.103	.000	.000	.229	.000	.182	.000	5.754

TOW 4 18/09/85 1030H	43 58.37 N 62 57.89									
SAMPLE	10	9	8	7	6	5	4	3	2	
DEPTH1 (M)	100.0	115.0	130.0	140.0	150.0	170.0	190.0	200.0	210.0	
DEPTH2 (M)	115.0	130.0	140.0	150.0	170.0	190.0	200.0	210.0	220.0	
VOLUME OF WATER SAMPLED (M3)	46.	45.	27.	28.	61.	166.	64.	54.	61.	
TOTAL BIOMASS (G/M3)	.018	.016	.030	.015	.017	.019	.018	.050	1.972	21.892
EUPHAUSIACEA BIOMASS (G/M3)	.000	.000	.003	.000	.000	.000	.001	.015	.012	

SPECIES	NUMBER PER CUBIC METER									#/M2
LIMACINA BULIMOIDES	.00	.00	.00	.16	.00	.00	.00	.12	.00	2.81
LIMACINA HELICOIDES	.00	.00	.00	.08	.07	.00	.06	.00	6.01	62.79
LIMACINA LESUEURII	.00	.00	.00	.32	.00	.00	.00	.25	.00	5.62
LIMACINA TROCHIFORMIS	.00	.00	.00	.00	.00	.00	.03	.25	.00	2.77
GYMNOSOMATA	1.09	.00	.99	.63	.26	.68	.72	.74	6.01	138.18
ACARTIA LONGIREMIS	.00	.09	.00	.08	.07	.00	.09	.00	.00	4.39
CALANUS FINMARCHICUS-TOTAL	7.75	7.05	11.28	5.30	7.97	4.10	8.23	15.13	1068.92	11552.00
CALANUS FINMARCHICUS (D)	.07	.18	.25	.00	.07	.40	.09	.37	12.01	149.33
CALANUS FINMARCHICUS (C)	.00	.00	.00	.00	.07	.00	.00	.00	6.01	61.37
CALANUS FINMARCHICUS (S)	.14	.09	.00	.00	.00	.08	.13	.00	6.01	66.43
CALANUS FINMARCHICUS VIM	.00	.00	.00	.00	.00	.04	.03	.00	.00	1.12
CALANUS FINMARCHICUS VIF	.22	.27	.25	.00	.13	.48	.22	.37	24.02	268.13
CALANUS FINMARCHICUS V	7.03	6.43	10.41	4.98	7.18	1.97	7.25	13.90	990.85	10658.82
CALANUS FINMARCHICUS IV	.51	.36	.62	.32	.66	1.61	.69	.86	54.05	623.61
CALANUS FINMARCHICUS III	.00	.00	.00	.00	.00	.00	.03	.00	.00	.31
CALANUS GLACIALIS (D)	.00	.00	.00	.00	.00	.00	.03	.00	.00	.31
CALANUS GLACIALIS (C)	.00	.00	.00	.00	.00	.00	.03	.00	.00	.31
CALANUS GLACIALIS VIF	.00	.00	.00	.00	.00	.00	.06	.00	.00	.63
CALANUS GLACIALIS V	1.09	1.16	1.61	.55	.92	.48	.78	1.48	84.07	946.78
CALANUS GLACIALIS IV	1.09	.71	1.12	.47	.59	.16	.57	2.46	102.09	1109.12
CALANUS HYPERBOREUS-TOTAL	1.23	.80	2.23	.71	1.52	.48	1.19	2.46	96.08	1095.66
CALANUS HYPERBOREUS (D)	.00	.00	.00	.00	.07	.00	.00	.00	.00	1.32
CALANUS HYPERBOREUS VIF	.00	.00	.00	.00	.07	.00	.00	.00	.00	1.32
CALANUS HYPERBOREUS V	.36	.27	.99	.24	.59	.12	.25	.25	36.03	401.29
CALANUS HYPERBOREUS IV	.87	.54	1.24	.47	.86	.28	.91	2.21	60.05	692.73
CALANUS SP.	1.59	2.95	2.35	3.08	1.91	.64	2.10	1.11	12.01	325.78
CENTROPAGES TYPICUS	.00	.18	.12	.00	.26	.00	.22	.00	.00	12.18
CLAUSOCALANUS FURCATUS	.00	.09	.12	1.03	.53	1.45	.66	.25	.00	61.37
EUCHEATA NORVEGICA	.00	.00	.00	.00	.00	.00	.00	.37	.00	3.69
EUCHEATA SP.	.00	.09	.12	.16	.07	.00	.00	.12	.00	8.31
EURYTEMORA HERDMANI	.00	.09	.00	.00	.00	.04	.35	.12	.00	6.83
METRIDIA LONGA	.07	.00	.00	.00	.00	.00	.00	.00	.00	1.09
METRIDIA LUCENS	.94	2.50	2.73	1.42	.86	.60	.25	.00	.00	124.82
MICROCALANUS PYGMAEUS	.00	.00	.00	.00	.00	.00	.06	.00	.00	1.42
OITHONA ATLANTICA	5.94	5.00	3.35	2.85	.72	.12	.35	.00	.00	246.42
OITHONA SIMILIS	.07	.00	.00	.00	.07	.00	.31	.00	.00	5.54
PARACALANUS PARVUS	.51	1.16	1.86	1.98	.66	.16	.57	.86	.00	94.03
PSEUDOCALANUS MINUTUS	.07	.18	.00	.24	.33	.20	.13	.49	6.01	82.97
SCOLECITHRICELLA MINOR	.00	.00	.00	.00	.00	.12	.00	.00	.00	2.41
TEMORA LONGICORNIS	.00	.00	.00	.40	.20	.04	.09	.00	.00	9.65
UNID/DAM/EXO COPEPOD	2.17	2.95	1.61	4.35	2.57	.40	4.96	3.57	6.01	341.17
UNIDENTIFIED HARPACTICOID	.00	.00	.00	.00	.07	.04	.00	.12	.00	3.35
PARATHEMISTO ABYSSORUM	.07	.00	.00	.00	.00	.00	.00	.00	.00	1.09
PARATHEMISTO SP.	.00	.18	.12	.08	.26	.00	.03	.00	.00	10.29
M. NORVEGICA FURCILIA	.07	.00	.00	.00	.00	.00	.00	.00	.00	1.09
EUPHAUSIID EGGS	.00	.00	.12	.40	.07	.00	.03	.00	.00	6.83
EUPHAUSIID NAUPLII	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00
DAMAGED EUPHAUSID	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00
DAMAGED FURCILIAE	.00	.00	.00	.00	.00	.00	.00	.12	.00	1.23

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

DIPHIDAE	.000	.000	.000	.000	.000	.006	.000	.000	.000	.120
EUPHAUSIACEA	.043	.000	.112	.000	.016	.006	.047	.148	.361	7.777
MEGANYCTIPHANES NORVEGICA	.022	.000	.037	.000	.000	.006	.016	.111	.345	5.531
THYSANOESSA INERMIS	.022	.000	.074	.000	.016	.000	.016	.037	.016	2.089
DAMAGED/UNIDENTIFIED EUPHAUS	.000	.000	.000	.000	.000	.000	.016	.000	.000	.157
DECAPODA	.000	.000	.000	.036	.000	.000	.000	.000	.000	.356
UNIDENTIFIED DECAPOD	.000	.000	.000	.036	.000	.000	.000	.000	.000	.356

TOW 10 20/09/85 1730H	44 04.85 N 62 46.86						
SAMPLE	2	3	4	5	6	7	
DEPTH1 (M)	190.0	202.0	212.0	221.0	227.0	226.0	
DEPTH2 (M)	202.0	212.0	221.0	227.0	226.0	230.0	
VOLUME OF WATER SAMPLED (M3)	155.	100.	119.	221.	94.	87.	
TOTAL BIOMASS (G/M3)	.012	.040	.108	.511	.641	.961	9.056
EUPHAUSIACEA BIOMASS (G/M3)	.003	.002	.005	.006	.002	.002	
LIMACINA HELICOIDES	.00	.00	.00	.00	2.72	.00	2.72
LIMACINA INFLATA	.00	.08	.27	.00	.00	.00	3.22
LIMACINA LESUEURII	.10	.16	.81	.00	2.72	.00	12.82
LIMACINA TROCHIFORMIS	.03	.00	.81	.00	.00	.00	7.58
LIMACINA SP.	.01	.00	.00	.00	.00	.00	.15
GYMNOSOMATA	.14	.44	1.61	9.25	5.44	35.47	223.47
CONCHOECIA SP.	.01	.00	.00	.00	.00	.00	.15
CALANUS FINMARCHICUS-TOTAL	6.55	24.16	168.21	1343.60	1511.00	2642.77	21977.79
CALANUS FINMARCHICUS (D)	.00	.68	2.42	6.94	5.44	.00	75.66
CALANUS FINMARCHICUS (G)	.00	1.04	2.96	11.56	.00	11.82	153.72
CALANUS FINMARCHICUS (S)	.00	.20	4.58	4.63	.00	.00	70.93
CALANUS FINMARCHICUS VIM	.01	.36	1.35	9.25	5.44	23.65	171.40
CALANUS FINMARCHICUS VIF	.00	2.76	10.23	23.13	5.44	11.82	320.73
CALANUS FINMARCHICUS V	4.61	17.88	123.53	1105.40	1312.61	2347.16	18679.53
CALANUS FINMARCHICUS IV	.30	.72	8.88	53.19	54.35	.00	464.18
CALANUS FINMARCHICUS III	.04	.04	.00	.00	.00	.00	.86
CALANUS FINMARCHICUS II	.00	.12	.27	.00	.00	.00	3.62
CALANUS FINMARCHICUS DAMAGED	.79	2.28	23.95	152.63	133.16	260.14	2337.31
CALANUS GLACIALIS (D)	.00	.00	.00	.00	2.72	.00	2.72
CALANUS GLACIALIS (S)	.00	.04	.27	.00	5.44	.00	8.26
CALANUS GLACIALIS VIF	.01	.04	.00	.00	8.15	.00	8.71
CALANUS GLACIALIS V	.15	1.04	9.15	87.88	119.58	183.28	1474.57
CALANUS GLACIALIS IV	.09	.76	8.07	62.44	89.68	153.72	1160.54
CALANUS GLACIALIS III	.01	.00	.00	.00	.00	.00	.15
CALANUS GLACIALIS DAMAGED	.00	.12	2.42	9.25	21.74	53.21	313.08
CALANUS HYPERBOREUS-TOTAL	.04	.12	1.61	4.63	2.72	41.39	212.21
CALANUS HYPERBOREUS V	.01	.08	.27	.00	.00	5.91	27.03
CALANUS HYPERBOREUS IV	.01	.04	1.08	2.31	2.72	29.56	145.08
CALANUS HYPERBOREUS DAMAGED	.01	.00	.27	2.31	.00	5.91	40.10
CALANUS SP.	.80	2.40	26.64	164.19	154.90	319.26	2690.50
CENTROPAGES BRADYI	.01	.04	.00	.00	.00	.00	.55
CENTROPAGES TYPICUS	.74	1.24	7.00	2.31	16.31	17.74	185.33
CLAUSOCALANUS FURCATUS	1.65	1.12	5.11	20.81	16.31	53.21	431.07
EUCHEATA NORVEGICA	.00	.04	.00	.00	.00	.00	.40
EUCHEATA SP.	.01	.04	.27	.00	.00	.00	2.98
EURYTEMORA HERDMANI	.00	.00	.00	.00	.00	5.91	23.65
MACROSTELLA GRACILIS	.03	.00	.00	.00	.00	.00	.31
MECYNOCERA CLAUSI	.03	.00	.00	.00	.00	.00	.31
METRIDIA LONGA	.00	.08	4.58	9.25	24.46	47.30	311.13
METRIDIA LUCENS	.15	2.08	10.77	27.75	32.61	23.65	413.26
MICROCALANUS PYGMAEUS	.00	.04	.27	.00	.00	.00	2.82
OITHONA ATLANTICA	.01	.08	1.61	.00	.00	.00	15.49
OITHONA SIMILIS	.04	.12	2.96	.00	2.72	.00	31.03
ONCAEA SP.	.03	.00	.00	.00	.00	.00	.31
PARACALANUS PARVUS	.31	.88	3.77	18.50	13.59	17.74	241.96
PARACALANUS/CLAUSOCALANUS	.03	.52	5.11	4.63	16.31	5.91	119.24
PLEUROMAMMA BOREALIS	.00	.00	.27	.00	.00	.00	2.42
PSEUDOCALANUS MINUTUS	.22	.28	2.69	2.31	16.31	5.91	83.48
SAPPHIRINA OPALINA	.01	.04	.00	.00	.00	.00	.55
SAPPHIRINA SALI	.00	.00	.00	.00	16.31	.00	16.31
SAPPHIRINA SP.	.01	.00	.00	.00	.00	.00	.15
SCOLECITHRICELLA MINOR	.03	.04	.00	2.31	.00	.00	14.59
TEMORA LONGICORNIS	.04	.04	.00	.00	.00	.00	.86
UNID/DAM/EXO COPEPOD	.89	1.84	10.77	16.19	29.89	65.03	513.13
UNIDENTIFIED HARPACTICOID	.03	.04	.27	.00	.00	.00	3.13
M. NORVEGICA ADULT	.03	.04	.27	.00	.00	.00	3.13
THYSANOESSA SP. CALYPTOSIS	.00	.04	.00	.00	.00	.00	.40
EUPHAUSIID EGGS	.00	.08	.00	.00	.00	.00	.80
DAMAGED EUPHAUSID	.00	.00	.27	.00	.00	.00	2.42
SAGITTA MAXIMA	.00	.04	.00	.00	.00	.00	.40

TOW 10 20/09/85 1730H (CONTINUED)

SAMPLE	2	3	4	5	6	7	
L A R G E M E S O Z O O P L A N K T O N & I C H T H Y O P L A N K T O N							
CTENOPHORA	.000	.000	.000	.000	.011	.000	.011
EUPHAUSIACEA	.026	.040	.177	.384	.170	.185	5.512
MEGANYCTIPHANES NORVEGICA	.026	.040	.143	.384	.170	.185	5.289
THYSANOESSA INERMIS	.000	.000	.008	.000	.000	.000	.076
THYSANOESSA LONGICAUDATA	.000	.000	.017	.000	.000	.000	.151
DAMAGED/UNIDENTIFIED EUPHAUS	.000	.000	.008	.000	.000	.000	.076
CHAETOGNATHA	.000	.010	.000	.018	.011	.058	.450
EUKHRONIA HAMATA	.000	.000	.000	.005	.000	.023	.119
SAGITTA ELEGANS	.000	.000	.000	.014	.000	.035	.220
SAGITTA HEXAPTERA	.000	.000	.000	.000	.011	.000	.011
UNIDENTIFIED CHAETOGNATH	.000	.010	.000	.000	.000	.000	.100

TOW 11 28/09/85 2000H	43 49.61 N 62 58.96								
SAMPLE	2	3	4	5	6	7	8	10	
DEPTH1 (M)	257.0	240.0	230.0	220.0	100.0	63.0	48.6	15.8	
DEPTH2 (M)	240.0	230.0	220.0	100.0	63.0	48.6	29.5	1.0	
VOLUME OF WATER SAMPLED (M3)	87.	74.	100.	423.	112.	40.	52.	49.	
TOTAL BIOMASS (G/M3)	5.493	.819	.136	.057	.163	.171	.179	.255	125.389
EUPHAUSIACEA BIOMASS (G/M3)	.064	.034	.042	.021	.032	.017	.024	.092	
LIMACINA LESUEURII	.00	.00	.00	.00	.00	.40	.00	.00	5.70
LIMACINA-DAMAGED	.00	.00	.00	.00	.00	.40	.00	.00	5.70
GYMNOSOMATA	47.08	13.88	.96	1.66	4.02	.79	.62	.65	1329.91
CALANUS FINMARCHICUS-TOTAL	*******	2327.59	141.44	45.09	184.83	183.37	208.19	192.78	381763.36
CALANUS FINMARCHICUS (D)	141.24	10.41	.96	2.72	18.37	19.01	17.30	1.95	4154.12
CALANUS FINMARCHICUS (G)	.00	.00	.32	.30	5.74	10.30	11.74	1.30	643.56
CALANUS FINMARCHICUS (S)	.00	13.88	2.24	1.51	2.30	5.94	2.47	1.95	589.23
CALANUS FINMARCHICUS VIM	.00	6.94	1.28	1.66	.57	.00	1.24	.65	336.34
CALANUS FINMARCHICUS VIF	141.24	24.28	3.52	4.54	26.40	34.85	28.42	5.19	5322.21
CALANUS FINMARCHICUS V	*******	2001.52	91.84	25.57	103.32	92.28	148.26	104.58	334470.28
CALANUS FINMARCHICUS IV	470.80	107.53	5.12	4.09	5.17	8.71	16.06	7.79	10359.09
CALANUS FINMARCHICUS III	.00	.00	.00	.00	.57	.00	.00	1.30	40.45
CALANUS FINMARCHICUS DAMAGED	1412.41	187.32	39.68	9.23	48.79	47.52	43.86	73.35	31881.36
CALANUS GLACIALIS (D)	.00	.00	.00	.00	.57	.00	.62	.00	33.04
CALANUS GLACIALIS (S)	.00	3.47	.32	.00	.57	.00	.00	.65	68.73
CALANUS GLACIALIS VIF	.00	3.47	.32	.00	1.15	.00	.62	.65	101.77
CALANUS GLACIALIS V	1459.49	208.13	7.36	2.12	5.74	5.15	5.56	9.09	27747.69
CALANUS GLACIALIS IV	1129.93	128.35	6.72	1.06	5.74	.40	2.47	9.09	21086.36
CALANUS GLACIALIS DAMAGED	564.97	45.09	7.04	2.57	4.02	9.50	6.80	11.03	11013.05
CALANUS HYPERBOREUS-TOTAL	988.69	76.31	4.48	.91	4.02	8.32	6.18	9.09	18245.51
CALANUS HYPERBOREUS V	282.48	31.22	.64	.00	1.15	.79	1.24	1.95	5227.18
CALANUS HYPERBOREUS IV	517.89	41.63	3.52	.61	2.30	2.38	3.71	4.54	9585.34
CALANUS HYPERBOREUS DAMAGED	141.24	3.47	.32	.30	.00	5.15	1.24	2.60	2611.47
CALANUS SP.	2118.62	235.88	47.04	12.10	52.81	62.18	51.89	86.98	45425.88
CENTROPAGES TYPICUS	.00	10.41	.64	.76	2.87	3.96	2.47	53.87	1209.00
CLAUSOCALANUS FURCATUS	.00	.00	.96	2.72	6.31	11.88	15.44	14.93	1257.04
EUCHEATA NORVEGICA	.00	.00	.00	.15	.57	.00	.00	.00	39.39
EUCHEATA SP.	.00	.00	.00	.30	.57	.00	.00	.00	57.55
MECYNOCERA CLAUSI	.00	.00	.32	.00	.00	.00	.00	.00	3.20
METRIDIA LONGA	94.16	45.09	14.72	8.78	.57	1.58	.62	1.30	3327.00
METRIDIA LUCENS	.00	34.69	14.72	24.36	88.97	72.87	71.04	5.84	9201.76
METRIDIA SP.	.00	.00	.00	.76	3.44	5.94	.62	.00	315.55
MICROCALANUS PYGMAEUS	.00	.00	.00	.00	.00	.40	.00	.00	5.70
OITHONA ATLANTICA	.00	.00	.32	6.35	1.72	.00	.00	.65	839.07
OITHONA SIMILIS	.00	.00	.00	.00	.00	.79	.00	.00	11.41
ONCAEA SP.	.00	.00	.00	.15	.00	.00	.00	.00	18.16
PARACALANUS PARVUS	.00	3.47	1.92	.45	1.15	7.52	3.71	141.50	2424.20
PARACALANUS/CLAUSOCALANUS	.00	.00	.32	.15	1.15	2.38	2.47	45.44	817.70
PSEUDOCALANUS MINUTUS	.00	3.47	.64	.00	1.15	.00	2.47	1.30	149.97
SCOLECITHRICELLA MINOR	.00	.00	.00	.30	.00	.00	.00	.00	36.31
TEMORA LONGICORNIS	.00	.00	.00	.15	.00	.00	.00	.00	18.16
UNID/DAM/EXO COPEPOD	329.56	45.09	19.84	4.54	6.89	16.63	8.65	29.86	7898.07
AMPHIPOD-DAMAGED	.00	.00	.00	.15	.57	.40	.00	3.89	102.74
PARATHEMISTO GAUDICHAUDI	.00	.00	.00	.00	.00	.00	.00	.65	9.61
PARATHEMISTO SP.	.00	.00	.00	.00	.00	.00	.00	1.30	19.21
PARATHEMISTO-IMMATURE	.00	.00	.00	.15	.00	.00	.00	.00	18.16
M. NORVEGICA ADULT	.00	.00	.32	.00	.57	.00	.00	.65	34.04
M. NORVEGICA FURCILIA	.00	.00	.00	.00	.00	.00	.62	8.44	136.68
THYSANOESSA INERMIS FURCILIAE	.00	.00	.00	.00	.00	.00	.62	.00	11.88
EUPHAUSIID EGGS	.00	.00	.00	.15	.00	.00	.00	.00	18.16
EUPHAUSIID NAUPLII	.00	.00	.00	.15	.00	.00	.00	.00	18.16
DAMAGED EUPHAUSID	.00	.00	.32	.00	.00	.00	.00	1.95	32.02
DAMAGED FURCILIAE	.00	.00	.00	.00	.00	.00	.00	.65	9.61
SAGITTA ELEGANS	.00	.00	.00	.00	.00	.40	.00	.00	5.70

TOW 11 20/09/85 2000H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	10	
LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON									
UNIDENTIFIED SIPHONOPHORE	.000	.000	.000	.000	.009	.000	.000	.000	.332
CTENOPHORA	.000	.000	.010	.000	.000	.000	.000	.000	.100
TOMOPTERIS SP.	.011	.000	.000	.000	.009	.000	.000	.000	.527
AMPHIPODA	.000	.000	.000	.009	.009	.000	.000	.000	1.135
PARATHEMISTO GAUDICHAUDII	.000	.000	.000	.009	.000	.000	.000	.000	1.135
EUPHAUSIACEA	.299	.203	.230	.118	.215	.248	.502	5.152	120.964
MEGANYCTIPHANES NORVEGICA	.299	.198	.230	.109	.188	.173	.270	5.112	112.604
THYSANOESSA INERMIS	.000	.000	.000	.000	.000	.074	.232	.041	6.094
THYSANOESSA LONGICAUDATA	.000	.014	.000	.009	.009	.000	.000	.000	1.602
DAMAGED/UNIDENTIFIED EUPHAUS	.000	.000	.000	.000	.018	.000	.000	.000	.664
CHAETOGNATHA	.172	.068	.070	.014	.027	.173	.116	.203	14.716
EUKHRONIA HAMATA	.000	.014	.020	.002	.000	.025	.000	.000	.976
SAGITTA ELEGANS	.172	.054	.050	.012	.027	.149	.116	.203	13.748

TOW 5 18/09/85 1330H	43 47.13 N 62 48.80									
SAMPLE	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	210.0	200.0	190.0	170.0	150.0	100.0	75.0	50.0	25.0	
DEPTH2 (M)	200.0	190.0	170.0	150.0	100.0	75.0	50.0	25.0	2.0	
VOLUME OF WATER SAMPLED (M3)	60.	33.	73.	76.	196.	86.	80.	76.	80.	
TOTAL BIOMASS (G/M3)	1.325	.013	.005	.005	.006	.004	.008	.022	.049	15.866
EUPHAUSIACEA BIOMASS (G/M3)	.012	.000	.000	.001	.000	.000	.002	.000	.000	

SPECIES	NUMBER PER CUBIC METER									#/M2
LIMACINA BULIMOIDES	.00	.08	.05	.03	.00	.00	.00	.00	.00	2.33
LIMACINA HELICOIDES	.00	.08	.05	.00	.00	.00	.42	.00	.25	17.80
LIMACINA LESUEURII	.00	.00	.05	.00	.00	.00	.08	.00	.00	2.99
LIMACINA TROCHIFORMIS	.00	.15	.09	.07	.00	.00	.00	.00	.00	4.65
GYMNOSOMATA	.00	.68	.32	.52	.82	1.96	1.66	.75	1.75	214.04
BIVALVE LARVAE	.00	.08	.00	.00	.00	.10	.08	.01	.00	5.65
CALANUS FINMARCHICUS-TOTAL	1336.89	10.00	3.93	2.00	3.72	1.96	3.99	1.87	4.75	14078.27
CALANUS FINMARCHICUS (D)	49.78	.15	.09	.00	.05	.00	.00	.04	.00	504.66
CALANUS FINMARCHICUS (G)	49.78	.08	.09	.00	.00	.00	.04	.00	.00	501.48
CALANUS FINMARCHICUS (S)	14.22	.00	.05	.00	.00	.03	.08	.00	.25	151.79
CALANUS FINMARCHICUS VIM	.00	.00	.00	.00	.00	.00	.04	.00	.00	1.04
CALANUS FINMARCHICUS VIF	113.78	.23	.23	.00	.05	.03	.12	.04	.25	1157.85
CALANUS FINMARCHICUS V	1315.56	8.41	3.11	1.48	2.76	.76	2.70	1.58	3.25	13669.81
CALANUS FINMARCHICUS IV	21.33	1.36	.59	.52	.92	.96	.95	.22	.75	366.06
CALANUS FINMARCHICUS III	.00	.00	.00	.00	.00	.20	.12	.01	.25	14.18
CALANUS FINMARCHICUS II	.00	.00	.00	.00	.00	.00	.04	.01	.25	7.12
CALANUS FINMARCHICUS DAMAGED	7.11	.00	.00	.00	.15	.07	.33	.41	.50	110.42
CALANUS GLACIALIS (D)	14.22	.00	.00	.00	.00	.00	.00	.00	.00	142.22
CALANUS GLACIALIS VIF	14.22	.00	.00	.00	.00	.00	.00	.00	.00	142.22
CALANUS GLACIALIS V	92.44	.23	.18	.16	.05	.03	.17	.16	.00	945.13
CALANUS GLACIALIS IV	7.11	1.21	.27	.10	.05	.00	.21	.03	.50	110.58
CALANUS HYPERBOREUS-TOTAL	49.78	.30	.05	.07	.31	.00	.17	.08	.50	536.72
CALANUS HYPERBOREUS V	14.22	.08	.05	.03	.05	.00	.00	.00	.25	152.85
CALANUS HYPERBOREUS IV	35.56	.30	.00	.03	.26	.00	.17	.08	.25	383.87
CALANUS SP.	7.11	1.21	.46	.36	.15	.07	.00	.41	.00	119.09
CENTROPAGES BRADYI	.00	.00	.00	.00	.00	.00	.00	.01	.00	.33
CENTROPAGES TYPICUS	.00	.30	.23	.16	.15	.10	.08	.16	17.25	423.80
CLAUSOCALANUS FURCATUS	28.44	2.20	3.88	2.92	.97	.23	.12	.07	3.50	581.98
CLYTEMNESTRA SCUTELLATA	.00	.00	.00	.00	.00	.00	.00	.01	.00	.33
EUCHEATA NORVEGICA	.00	.00	.00	.00	.05	.00	.00	.00	.00	2.55
EUCHEATA SP.	.00	.08	.00	.00	.05	.00	.00	.00	.00	3.31
EURYTEMORA HERDMANI	.00	.00	.00	.00	.00	.03	.00	.00	.00	.83
MECYNOCERA CLAUSI	.00	.00	.00	.00	.00	.00	.00	.01	.00	.33
METRIDIA LUCENS	.00	.45	.50	1.28	2.81	.07	.00	.07	.50	195.29
MICROCALANUS PYGMAEUS	.00	.15	.59	.07	.10	.00	.00	.00	.00	19.80
OITHONA ATLANTICA	.00	.15	.37	.85	5.20	1.63	.58	.07	.00	342.96
OITHONA SIMILIS	.00	.00	.37	.16	.20	.33	.25	1.58	1.00	97.80
PARACALANUS PARVUS	21.33	.68	.18	.26	.20	.23	.29	.30	45.25	1300.65
PARACALANUS/CLAUSOCALANUS	.00	.00	.00	.00	.00	.00	.00	.00	1.25	28.75
PSEUDOCALANUS MINUTUS	.00	.30	.05	.07	.31	.10	.17	.12	9.25	242.92
TEMORA LONGICORNIS	.00	.08	.18	.00	.20	.07	.00	.04	.00	17.26
UNID/DAM/EXO COPEPOD	56.89	3.79	5.53	2.20	2.50	1.13	.71	.96	7.25	1122.88
UNIDENTIFIED HARPACTICOID	.00	.08	.14	.00	.00	.03	.00	.01	.00	4.66
PARATHEMISTO ABYSSORUM	.00	.00	.00	.00	.05	.00	.00	.01	.00	2.88
PARATHEMISTO SP.	.00	.08	.00	.00	.41	.00	.04	.09	.25	30.26
THYSANOESSA INERMIS FURCILIAE	.00	.00	.00	.00	.05	.00	.00	.00	.00	2.55
UNIDENTIFIED CALYPTOSIS	.00	.00	.00	.00	.00	.03	.04	.03	.00	2.53
T. LONGICAUDATA FURCILIAE	.00	.00	.00	.00	.00	.00	.00	.01	.00	.33
EUPHAUSIID NAUPLII	.00	.08	.00	.00	.10	.20	.08	.01	.25	19.00
DAMAGED EUPHAUSID	.00	.00	.00	.03	.00	.00	.00	.00	.00	.66

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

UNIDENTIFIED MEDUSA	.000	.000	.000	.000	.000	.000	.000	.000	.188	4.313
CTENOPHORA	.000	.000	.000	.000	.000	.000	.000	.118	.000	2.961
TOMOPTERIS SP.	.000	.000	.014	.000	.000	.000	.000	.000	.000	.274
AMPHIPODA	.000	.000	.000	.000	.005	.000	.000	.013	.000	.584
PARATHEMISTO GAUDICHAUDII	.000	.000	.000	.000	.005	.000	.000	.013	.000	.584

TOW 5 18/09/85 1330H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER									#/M2
EUPHAUSIACEA	.133	.000	.000	.052	.005	.000	.262	.026	.000	9.834
MEGANYCTIPHANES NORVEGICA	.117	.000	.000	.000	.000	.000	.000	.000	.000	1.167
THYSANOESSA INERMIS	.000	.000	.000	.052	.005	.000	.112	.026	.000	4.765
THYSANOESSA LONGICAUDATA	.000	.000	.000	.000	.000	.000	.149	.000	.000	3.736
DAMAGED/UNIDENTIFIED EUPHAUS	.017	.000	.000	.000	.000	.000	.000	.000	.000	.167
CHAETOGNATHA	.033	.000	.000	.000	.000	.000	.000	.000	.013	.621
SAGITTA ELEGANS	.033	.000	.000	.000	.000	.000	.000	.000	.013	.621
PICES	.000	.000	.000	.000	.010	.000	.000	.039	.000	1.497
MERLUCCIUS BILINEARIS	.000	.000	.000	.000	.010	.000	.000	.039	.000	1.497

TOW 6 18/09/85 1530H	43 33.95 N 62 38.08										
SAMPLE	1	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	.0	7.0	14.0	21.0	28.0	35.0	40.0	45.0	50.0	60.0	
DEPTH2 (M)	7.0	14.0	21.0	28.0	35.0	40.0	45.0	50.0	60.0	75.0	
VOLUME OF WATER SAMPLED (M3)	63.	28.	30.	32.	28.	23.	29.	32.	41.	78.	
TOTAL BIOMASS (G/M3)	.037	.121	.050	.009	.015	011	.009	.038	.026	.169	4.693
EUPHAUSIACEA BIOMASS (G/M3)	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	

SPECIES	NUMBER PER CUBIC METER										#/M2
MEDUSA	.00	.00	.00	.00	.00	.00	00	.00	.00	.69	10.36
GYMNOSOMATA	.00	1.93	.67	.25	.71	.13	.45	.38	.67	3.43	87.98
ACARTIA LONGIREMIS	.00	.00	.00	13	.00	.00	.00	.00	.00	.00	.89
CALANUS FINMARCHICUS-TOTAL	3.41	28.99	25.33	3.94	10.57	4.96	3.24	9.25	7.14	142.77	2885.86
CALANUS FINMARCHICUS (D)	.00	.00	.22	.00	.71	.22	.10	1.25	.36	5.49	100.42
CALANUS FINMARCHICUS (G)	.00	.00	.22	.51	.57	.91	.10	1.50	.73	17.85	296.66
CALANUS FINMARCHICUS (S)	.00	.00	.00	.25	1.14	.26	.14	.00	.39	1.37	35.48
CALANUS FINMARCHICUS VIM	.00	.00	.00	.00	.00	.22	.03	.00	.00	7.55	115.12
CALANUS FINMARCHICUS VIF	.00	.00	.44	.00	2.43	1.39	.35	2.75	1.39	24.71	427.14
CALANUS FINMARCHICUS V	1.70	9.66	1.33	1.90	6.29	3.13	2.20	5.00	5.27	100.45	1881.60
CALANUS FINMARCHICUS IV	.00	.00	2.44	.63	.57	.04	.24	.00	.36	2.00	61.51
CALANUS FINMARCHICUS III	.00	11.59	12.00	1.14	1.29	.13	.20	.30	.00	.00	186.00
CALANUS FINMARCHICUS II	.00	7.73	9.11	.25	.00	.04	.14	.00	.00	.00	120.56
CALANUS FINMARCHICUS I	1.70	.00	.00	.00	.00	.00	.00	.25	.06	.00	13.76
CALANUS FINMARCHICUS DAMAGED	.00	5.80	.00	.00	.00	.00	.00	.00	.00	.00	40.58
CALANUS GLACIALIS V	.00	.00	.00	.13	.14	.09	.07	.25	.30	2.00	37.84
CALANUS GLACIALIS IV	.00	.00	.00	.00	.14	.04	.07	.00	.12	1.37	23.37
CALANUS HYPERBOREUS-TOTAL	.00	.00	.00	.00	.00	.04	.00	.13	.06	.00	1.43
CALANUS HYPERBOREUS IV	00	.00	.00	.00	.00	.04	.00	.13	.06	.00	1.43
CALANUS SP.	00	5.80	3.78	.51	.57	1.00	.70	.30	.67	2.75	132.78
CALOCALANUS PAVO	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00	.89
CANDACIA ARMATA	00	.00	.00	.00	.14	.04	.00	.00	.00	.00	1.22
CENTROPAGES TYPICUS	35.70	199.03	12.22	1.02	3.43	1.35	.90	.75	12	.69	1787.26
CLAUSOCALANUS FURCATUS	00	5.00	.44	.51	.57	.04	.31	.13	10	.00	55.47
EUCHEATA SP.	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00	.89
METRIDIA LONGA	.00	00	.00	.00	.14	.00	.00	.00	.00	.69	11.36
METRIDIA LUCENS	.00	.00	.00	.76	.29	.43	.00	.00	.00	.00	9.51
MICROCALANUS PYGMAEUS	00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.17
OITHONA ATLANTICA	.00	.00	.00	.00	.29	.43	.50	.25	1.00	14.41	243.19
OITHONA SIMILIS	.00	1.93	.22	.63	.14	.20	.24	.25	10	.00	26.12
PARACALANUS PARVUS	345.90	212.56	8.22	7.37	7.00	4.43	3.14	4.00	73	1.37	4163.42
PARACALANUS/CLAUSOCALANUS	6.02	17.39	.67	.00	.14	.00	.00	.00	.00	.00	175.12
PSEUDOCALANUS MINUTUS	5.11	11.59	.09	1.02	.43	.09	.14	.13	.00	.00	135.03
TEMORA LONGICORNIS	.00	1.93	.00	.00	.00	.00	.00	.00	.00	.00	13.53
UNID/DAM/EXO COPEPOD	44.30	65.70	9.56	10.41	4.57	6.39	3.94	3.00	2.42	3.43	1004.13
UNIDENTIFIED HARPACTICOID	.00	.00	.00	.13	.00	.00	10	.00	.00	.00	1.47
PARATHEMISTO ABYSSORUM	.00	.00	.22	.00	.00	.09	.14	1.50	.91	.00	19.27
PARATHEMISTO GAUDICHAUDI	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.17
PARATHEMISTO LIBELLULA	.00	.00	.00	.00	.00	.00	.00	.00	12	.00	1.21
PARATHEMISTO SP.	.00	.00	1.11	.30	.00	74	.42	0.25	1.09	1.37	95.02
M. NORVEGICA FURCILIA	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00	.89
UNIDENTIFIED CALYPTOSIS	.00	1.93	.00	.00	.00	.00	.00	.00	.00	.00	13.53
THYSANOESSA SP. FURCILIAE	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.61
EUPHAUSIID EGGS	3.41	.00	2.00	13.33	7.71	.52	3.10	1.00	12	.69	219.81
EUPHAUSIID NAUPLII	1.70	32.05	.00	.00	.00	.00	.03	.00	.00	.00	242.05
SAGITTA SETOSA	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.17
FRITILLARIA BOREALIS	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.22
FISH EGGS	.00	.00	.00	.00	.00	.00	00	.00	.06	.00	.61

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

UNIDENTIFIED MEDUSA	.000	.072	.033	.000	.000	.000	000	.000	.000	.000	.741
TOMOPTERIS SP.	.000	.000	.000	.032	.000	.000	000	.000	.000	.013	.415
AMPHIPODA	.016	.000	.000	.000	.000	000	035	.281	.169	.026	3.773
PARATHEMISTO GAUDICHAUDII	.016	.000	.000	.000	.000	000	.035	.281	.169	.026	3.773
EUPHAUSIACEA	.016	.000	.000	.000	.000	000	.000	.000	.048	.013	.789
THYSANOESSA INERMIS	.016	.000	.000	.000	.000	000	.000	.000	.024	.013	.547
THYSANOESSA LONGICAUDATA	.000	.000	.000	.000	.000	000	.000	.000	.024	.000	.242
DECAPODA	.000	.000	.000	.000	.000	000	.000	.031	.000	.039	.735
IMMATURE DECAPOD	.000	.000	.000	.000	.000	000	.000	.000	.000	.039	.579
UNIDENTIFIED DECAPOD	.000	.000	.000	.000	.000	000	.000	.031	.000	.000	.156
CHAETOGNATHA	.000	.000	.033	.000	.000	000	.000	.000	.024	.026	.862
SAGITTA ELEGANS	.000	.000	.033	.000	.000	000	.000	.000	.024	.026	.862

TOW 7 18/09/85 2015H	43 09.43 N 62 17.98										
SAMPLE	1	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	.0	7.0	14.0	22.0	29.0	36.0	41.0	49.0	54.0	63.0	
DEPTH2 (M)	7.0	14.0	22.0	29.0	36.0	41.0	49.0	54.0	63.0	80.0	
VOLUME OF WATER SAMPLED (M3)	65.	48.	51.	40.	43.	24.	34.	22.	38.	84.	
TOTAL BIOMASS (G/M3)	.029	.047	.059	.075	.067	.095	.122	.119	.094	.168	7.280
EUPHAUSIACEA BIOMASS (G/M3)	.008	.027	.039	.048	.032	.055	.026	.066	.037	.022	

SPECIES	NUMBER PER CUBIC METER										#/M2
UNIDENTIFIED/DAMAGED MEDUSA	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.
SIPHONOPHORA	.00	.00	.00	.00	.00	.00	.00	.00	.26	5.70	99.
LIMACINA BULIMOIDES	.15	.42	.00	.00	.62	.00	.00	.00	.00	.00	8.
LIMACINA HELICOIDES	.31	.84	.20	.33	.00	.00	.00	.00	.00	.00	11.
LIMACINA INFLATA	.46	.52	.65	2.66	.00	.27	.00	.00	.00	.00	32.
LIMACINA LESUEURII	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.
LIMACINA RETROVERSA	.00	.00	.00	.00	.31	.00	.00	.00	.00	.00	2.
GYMNOSOMATA	.31	.31	.20	.00	.00	.27	.00	.00	.26	3.48	68.
BIVALVE LARVAE	.15	.21	.00	.00	.00	.00	.00	.30	.00	.00	4.
ACARTIA CLAUSI	4.45	1.88	.13	1.00	.00	.14	.00	.00	.00	.00	53.
ACARTIA LONGIREMIS	7.99	1.67	.59	.67	.31	.27	.00	.30	.00	.00	82.
ACARTIA SP.	.15	.00	.00	.33	.31	.00	.00	.00	.00	.00	5.
CALANUS FINMARCHICUS-TOTAL	3.99	1.77	.92	1.00	11.42	10.56	31.04	36.80	46.86	52.57	1935.
CALANUS FINMARCHICUS (D)	.00	.00	.00	.00	.00	.00	.48	.30	.00	.32	10.
CALANUS FINMARCHICUS (G)	.00	.00	.07	.00	1.23	.69	.24	.60	.00	.00	17.
CALANUS FINMARCHICUS (S)	.00	.00	.07	.00	.00	.00	.72	.30	.00	.00	7.
CALANUS FINMARCHICUS VIF	.00	.00	.13	.00	1.23	.69	1.43	1.21	.00	.32	36.
CALANUS FINMARCHICUS V	.31	.21	.46	.33	2.78	1.10	2.39	5.73	3.93	49.09	952.
CALANUS FINMARCHICUS IV	.15	.00	.00	.00	1.85	1.23	2.39	2.11	.79	1.90	89.
CALANUS FINMARCHICUS III	.46	.31	.13	.33	4.01	5.21	13.13	7.84	4.19	.63	255.
CALANUS FINMARCHICUS II	2.30	1.15	.13	.33	1.54	2.33	11.70	19.31	15.45	.32	384.
CALANUS FINMARCHICUS I	.77	.10	.07	.00	.00	.00	.00	.60	22.51	.32	217.
CALANUS GLACIALIS V	.00	.00	.07	.00	.00	.14	.00	.00	.00	.63	11.
CALANUS GLACIALIS IV	.00	.00	.00	.00	.00	.00	.00	.00	.52	.00	4.
CALANUS HYPERBOREUS-TOTAL	.00	.00	.00	.00	.00	.00	.00	.30	.00	.32	6.
CALANUS HYPERBOREUS IV	.00	.00	.00	.00	.00	.00	.00	.00	.00	.32	5.
CALANUS SP.	.00	1.36	1.31	.67	2.78	9.60	7.40	15.69	4.45	5.38	361.
CALANUS MINOR	1.38	1.36	.79	.33	.62	.00	.00	.00	.00	.00	32.
CALOCALANUS PAVO	.15	.10	.26	.00	.00	.00	.00	.00	.00	.00	3.
CENTROPAGES BRADYI	.46	.63	.59	1.00	1.54	.82	.24	.00	.00	.00	36.
CENTROPAGES TYPICUS	.15	1.36	.07	.00	.93	.00	.00	.90	.26	.00	24.
CLAUSOCALANUS ARCUICORNIS	.61	.84	.00	.00	.00	.00	.00	.00	.00	.00	10.
CLAUSOCALANUS FURCATUS	.15	4.80	6.55	58.52	54.01	9.74	11.46	17.80	14.92	4.75	1319.
CLYTEMNESTRA SCUTELLATA	.00	.10	.13	.00	.00	.00	.00	.00	.00	.00	1.
CONAEA RAPAX	.00	.00	.00	.00	.00	.00	.00	.00	.52	.00	4.
EURYTEMORA HERDMANI	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.
MACROSTELLA GRACILIS	.31	.42	.39	1.66	.00	.14	.24	.00	.00	.00	22.
MECYNOCERA CLAUSI	.31	.42	.20	2.33	.31	.14	.00	.30	.00	.00	27.
METRIDIA LONGA	.00	.00	.00	.00	.00	.00	.00	.00	.00	.63	10.
METRIDIA LUCENS	15.67	6.68	6.68	3.99	8.02	7.96	10.51	12.37	15.45	9.50	780.
OITHONA ATLANTICA	.00	.10	.07	.00	.00	.55	.48	.30	2.88	7.92	169.
OITHONA SIMILIS	.15	.00	.00	.33	.00	.00	.00	.00	14.66	.32	140.
PARACALANUS PARVUS	3.38	1.77	.13	.00	.00	.00	.00	.00	.00	.00	37.
PSEUDOCALANUS MINUTUS	.00	.00	.00	.00	.62	.27	1.67	1.21	2.62	2.53	91.
SCOLECITHRICELLA MINOR	.00	.00	.00	.00	.00	.00	.24	.00	.00	.00	1.
TEMORA LONGICORNIS	.00	.00	.13	.00	.00	.00	.00	.00	.00	.00	1.
UNID/DAM/EXO COPEPOD	8.14	17.75	8.58	20.62	20.06	11.39	13.37	12.37	20.42	5.70	1041.
UNIDENTIFIED HARPACTICOID	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.
COPEPOD NAUPLII	.00	.10	.00	.00	.00	.00	.00	.00	3.40	.00	31.
PARATHEMISTO ABYSSORUM	.00	.00	.13	.33	.00	.00	.00	.30	.26	.00	7.
PARATHEMISTO SP.	.15	.21	.33	.00	.00	.00	.24	.00	.26	.95	25.
UNIDENTIFIED AMPHIPOD	.31	.00	.00	.00	.00	.00	.24	.00	.00	.00	4.
M. NORVEGICA FURCILIA	.31	.10	.13	.00	.00	.00	.00	.00	.00	.00	3.
T. LONGICAUDATA FURCILIAE	.00	.00	.00	.00	.31	.14	.00	.00	.00	.00	2.
EUPHAUSIID EGGS	.00	.00	.00	.00	.00	.00	.24	.00	.00	.00	1.
EUPHAUSIID NAUPLII	.00	.00	.00	.00	.00	.00	.00	.00	.00	.32	5.
DAMAGED FURCILIAE	.00	.21	.13	.33	.00	.14	.00	.00	.26	.00	7.
DECAPOD LARVAE	.00	.00	.00	.33	.62	.00	.00	.00	.00	.00	6.
SAGITTA ELEGANS	.15	.52	.46	.00	.62	.00	.00	.00	.00	.00	12.
SAGITTA SP.	.00	.00	.00	.33	.00	.00	.00	.00	.00	.00	2.
DAMAGED CHAETOGNATH	.00	.31	.07	.33	.00	.00	.00	.00	.00	.00	5.
OIKOPLEURA SP.	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	2.
FRITILLARIA SP.	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	2.
FISH EGGS	.15	.42	.20	.33	.00	.00	.00	.30	.00	.00	9.

TOW 7 18/09/85 2015H (CONTINUED)

SAMPLE	1	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER										#/M2
LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON											
DIPHIDAE	.000	.000	.000	.000	.000	.000	.209	.181	.000	.653	13.681
UNIDENTIFIED SIPHONOPHORE	.000	.000	.000	.000	.000	.165	.060	.181	.000	.261	6.647
UNIDENTIFIED MEDUSA	.000	.000	.000	.000	.000	.000	.030	.000	.000	.000	.239
CLIONE SP.	.000	.000	.000	.025	.046	.165	.000	.000	.131	.166	5.326
TOMOPTERIS SP.	.015	.000	.000	.000	.000	.000	.000	.000	.000	.012	.389
AMPHIPODA	.000	.000	.000	.000	.000	.000	.000	.045	.026	.143	2.885
PARATHEMISTO GAUDICHAUDII	.000	.000	.000	.000	.000	.000	.000	.045	.026	.143	2.885
EUPHAUSIACEA	.553	.668	.707	.673	.764	1.029	.388	.543	.576	.389	45.662
MEGANYCTIPHANES NORVEGICA	.430	.585	.589	.574	.579	.576	.179	.317	.236	.119	29.920
THYSANOESSA INERMIS	.046	.000	.000	.100	.023	.000	.030	.000	.000	.024	1.825
THYSANOESSA LONGICAUDATA	.077	.084	.118	.000	.162	.453	.179	.226	.340	.166	13.916
CHAETOGNATHA	.077	.084	.039	.050	.000	.041	.000	.000	.000	.000	1.991
SAGITTA ELEGANS	.061	.084	.039	.050	.000	.000	.000	.000	.000	.000	1.678
SAGITTA MAXIMA	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.188
UNIDENTIFIED CHAETOGNATH	.000	.000	.000	.000	.000	.041	.000	.000	.000	.000	.206
PICES	.000	.000	.000	.025	.000	.000	.000	.000	.000	.000	.175
UNIDENTIFIED FISH LARVE	.000	.000	.000	.025	.000	.000	.000	.000	.000	.000	.175

TOW 9 19/09/85 1030H	42 42.36 N 61 59.54										
SAMPLE	1	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	.0	10.0	20.0	30.0	40.0	50.0	75.0	100.0	150.0	200.0	
DEPTH2 (M)	10.0	20.0	30.0	40.0	50.0	75.0	100.0	150.0	200.0	250.0	
VOLUME OF WATER SAMPLED (M3)	25.	13.	29.	26.	29.	53.	66.	198.	124.	158	
TOTAL BIOMASS (G/M3)	.056	.215	.188	.319	.049	.023	.015	.007	.012	.009	9.811
EUPHAUSIACEA BIOMASS (G/M3)	.000	.001	.000	.005	.003	.003	.001	.000	.000	.000	

SPECIES	NUMBER PER CUBIC METER										#/M2
SIPHONOPHORA	.00	.53	.00	.00	.00	.00	.05	.00	.00	.00	6.
CTENOPHORA	.00	.00	.00	.00	.00	.06	.00	.00	.00	.00	1.
LIMACINA BULIMOIDES	.00	.00	.00	.39	.14	.00	.00	.00	.00	.00	5.
LIMACINA HELICOIDES	.00	.53	.00	.39	1.93	1.58	.46	.07	.16	.00	90.
LIMACINA INFLATA	4.98	3.17	.23	7.45	9.38	4.31	6.32	6.81	2.75	3.42	1166.
LIMACINA LESUEURII	.36	.00	.23	.39	.28	.06	.00	.00	.05	.00	16.
LIMACINA RETROVERSA	11.02	4.76	.68	.78	.28	.06	.00	.00	.00	.00	176.
UNIDENTIFIED THECOSOMATA	2.49	3.70	.23	.00	.55	.13	.00	.00	.05	.09	80.
GYMNOSOMATA	.00	.00	.00	.00	.83	1.46	.81	.37	.00	.03	85.
CLIONE SP.	.00	.00	.00	.39	.00	.06	.05	.10	.05	.00	14.
TOMOPTERIS SP.	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.
CONCHOECIA CURTA	.00	.00	.00	.39	.41	.38	1.26	1.99	3.02	.54	326.
CONCHOECIA SPINIFERA	.00	.00	.00	.00	.00	.00	.00	.00	.05	.03	4.
CONCHOECIA SPINIROSTRIS	.00	.00	.00	.00	.00	.19	.00	.00	.00	.03	6.
CONCHOECIA SP.	.00	.00	.00	.00	.00	.00	.20	.20	.11	.06	23.
ACARTIA CLAUSI	1.78	3.70	.00	.00	.14	.00	.00	.00	.00	.00	56.
ACARTIA LONGIREMIS	.00	.00	2.85	2.35	.41	.00	.00	.00	.00	.00	48.
AETIDEUS ARMATUS	.00	.00	.00	.00	.00	.00	.00	.00	.11	.35	22.
CALANUS FINMARCHICUS-TOTAL	1.78	1.06	.23	3.92	.14	.06	.10	.00	.05	.06	81.
CALANUS FINMARCHICUS V	.71	1.06	.23	3.92	.14	.00	.00	.00	.05	.06	66.
CALANUS FINMARCHICUS IV	.71	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.
CALANUS FINMARCHICUS III	.36	.00	.00	.00	.00	.06	.00	.00	.00	.00	5.
CALANUS FINMARCHICUS II	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	2.
CALANUS GLACIALIS V	.00	.00	.00	.39	.00	.00	.00	.00	.00	.00	3.
CALANUS GLACIALIS IV	.00	.00	.00	.00	.00	.00	.00	.00	.05	.03	4.
CALANUS GRACILIS	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.
CALANUS TENUICORNIS-TOTAL	.00	.00	.00	.00	.00	.00	.10	.07	.00	.00	5.
CALANUS TENUICORNIS V	.00	.00	.00	.00	.00	.00	.10	.07	.00	.00	5.
CALANUS SP.	21.33	1.06	.91	8.24	.55	.63	.00	.00	.00	.00	336.
CALANUS MINOR	.00	4.76	.91	.78	.00	.13	.10	.10	.00	.00	75.
CALOCALANUS PAVO	.00	.00	.23	.00	.00	.00	.00	.00	.00	.00	2.
CALOCALANUS PLUMULOSUS	.00	.00	.00	2.75	.14	.06	.00	.00	.00	.00	30.
CANDACIA ARMATA	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	1.
CENTROPAGES BRADYI	8.53	9.52	1.37	3.14	1.79	.57	.81	.17	.05	.00	289.
CENTROPAGES TYPICUS	.00	.00	.00	.00	.00	.06	.00	.00	.00	.00	1.
CHIRIDIUS GRACILIS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	1.
CLAUSOCALANUS ARCUICORNIS	3.20	.00	.00	.00	.00	.00	.00	.07	.11	.03	42.
CLAUSOCALANUS FURCATUS	2.84	.53	.00	.00	.00	.19	.15	.13	1.57	.16	135.
CLYTEMNESTRA SCUTELLATA	.36	.00	.23	1.18	.14	.00	.00	.00	.00	.00	18.
CORYCAEUS TYPICUS	.00	.00	.00	.00	.00	.00	.05	.03	.00	.00	2.
CORYCAEUS SP.	.00	.00	.00	.00	.00	.00	.00	.13	.00	.00	6.
EUCHEATA SP.	.36	.53	.00	.00	.00	.00	.00	.13	.00	.25	28.
EURYTEMORA SP.	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	2.
HALOPTILUS LONGICORNIS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.35	17.
MACROSTELLA GRACILIS	2.49	1.59	.00	.00	.14	.00	.00	.00	.00	.00	42.
MECYNOCERA CLAUSI	.00	.00	.46	2.75	.55	.25	.00	.00	.00	.00	43.
METRIDIA BREVICAUDA	.00	1.06	.00	.00	.00	.00	.00	.00	.00	.00	10.
METRIDIA LUCENS	.00	.00	.00	.00	.14	.06	.05	.00	.43	.28	48.
OITHONA ATLANTICA	.00	.00	.00	.39	.14	.25	.15	.20	1.51	.03	102.
OITHONA SIMILIS	.00	.00	.00	.00	.14	.06	.00	.13	.00	.00	9.
OITHONA SP.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	3.
ONCAEA CONIFERA	.00	.00	.00	.39	.00	.00	.05	.03	.11	.00	12.
ONCAEA VENUSTA	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00	5.
ONCAEA SP.	.00	.53	.00	.00	.00	.13	.00	.07	.22	.00	22.
PARACALANUS PARVUS	1.78	.00	.00	.78	.00	.19	.00	.03	.00	.00	32.
PLEUROMAMMA ABDOMINALIS	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.
PLEUROMAMMA BOREALIS	.00	.53	.00	.00	.00	.00	.46	.00	.05	.25	32.
PLEUROMAMMA GRACILIS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	1.
PLEUROMAMMA SP.	.00	.00	.00	.00	.28	.06	.20	.10	.49	2.48	158.
PSEUDOCALANUS MINUTUS	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.
RHINCALANUS CORNUTUS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	1.
RHINCALANUS NASUTUS	.00	.00	.00	.00	.14	.00	.00	.07	.00	.00	4.
SAPPHIRINA MACULOSA	.00	1.06	.00	.00	.00	.00	.00	.00	.00	.00	10.
SAPPHIRINA SALI	.71	2.65	.00	.00	.00	.00	.05	.00	.00	.00	34.
SAPPHIRINA SP.	.00	.00	.23	.39	.28	.00	.00	.00	.00	.00	8.
SCOLECITHRICELLA MINOR	.00	.00	.00	.00	.00	.00	.05	.00	.05	.03	5.
SPINOCALANUS ABYSSALLIS	.36	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.

TOW 9 19/09/85 1030H (CONTINUED)

SAMPLE	1	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER										#/M2
TEMORA LONGICORNIS	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.69
UNID/DAM/EXO COPEPOD	25.24	3.17	2.96	4.31	3.17	3.23	1.37	.48	1.84	1.71	788.95
PARATHEMISTO SP.	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.69
UNIDENTIFIED AMPHIPOD	.36	.00	.00	.00	.14	.06	.00	.00	.00	.35	23.91
UNIDENTIFIED CALYPTOSIS	.00	.00	.46	.00	.00	.00	.00	.00	.00	.06	4.55
THYSANOESSA SP. FURCILIAE	.36	.53	.00	.00	.00	.00	.00	.00	.00	.00	8.85
THYSANOESSA SP. CALYPTOSIS	1.78	1.59	.00	.00	.00	.06	.05	.00	.11	.00	41.90
EUPHAUSIID EGGS	.36	.00	.00	.39	.00	.00	.05	.00	.00	.03	10.32
EUPHAUSIID NAUPLII	.00	.53	.00	.39	.00	.00	.00	.00	.05	.00	11.91
DAMAGED EUPHAUSID	.00	.00	.00	.78	.14	.00	.10	.00	.00	.00	11.75
DAMAGED FURCILIAE	.36	1.06	.23	.00	.00	.00	.00	.00	.00	.06	19.58
DECAPOD LARVAE	.00	.00	.23	.00	.00	.06	.00	.00	.00	.00	3.86
SAGITTA ELEGANS	1.07	.00	.00	.00	.00	.06	.00	.00	.00	.00	12.25
SAGITTA MAXIMA	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.69
SAGITTA SP.	.36	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.56
DAMAGED CHAETOGNATH	.71	.00	.00	.00	.14	.00	.05	.00	.00	.03	11.34
OIKOPLEURA SP.	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	1.38
SALP	42.31	80.95	54.38	122.35	14.07	6.46	.86	.07	.43	.00	3348.71

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

UNIDENTIFIED SIPHONOPHORE	.000	.000	.000	.235	.000	.095	.000	.000	.008	.000	5.134
AMPHIPODA	.040	.000	.000	.000	.034	.000	.000	.000	.000	.000	.745
PHRONIMA SP	.000	.000	.000	.000	.034	.000	.000	.000	.000	.000	.345
UNIDENTIFIED GAMMARID	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.400
EUPHAUSIACEA	.040	.079	.068	.549	.276	.304	.106	.010	.000	.025	22.156
EUPHAUSIA KROHNII	.000	.000	.000	.000	.000	.000	.000	.005	.000	.019	1.202
STYLOCHEIRON SP.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.006	.316
THYSANOESSA LONGICAUDATA	.040	.079	.068	.549	.276	.304	.106	.000	.000	.000	20.385
DAMAGED/UNIDENTIFIED EUPHAUS	.000	.000	.000	.000	.000	.000	.000	.005	.000	.000	.253
DECAPODA	.000	.238	.000	.000	.000	.000	.000	.000	.000	.000	2.381
IMMATURE DECAPOD	.000	.159	.000	.000	.000	.000	.000	.000	.000	.000	1.587
UNIDENTIFIED DECAPOD	.000	.079	.000	.000	.000	.000	.000	.000	.000	.000	.794
CHAETOGNATHA	.040	.000	.034	.039	.000	.000	.015	.005	.032	.025	4.650
SAGITTA ELEGANS	.040	.000	.000	.039	.000	.000	.000	.000	.000	.000	.792
SAGITTA HEXAPTERA	.000	.000	.000	.000	.000	.000	.000	.000	.016	.006	1.126
SAGITTA MAXIMA	.000	.000	.000	.000	.000	.000	.000	.000	.016	.019	1.758
UNIDENTIFIED CHAETOGNATH	.000	.000	.034	.000	.000	.000	.015	.005	.000	.000	.973
PICES	.040	.159	.068	.118	.000	.000	.015	.005	.000	.000	4.479
BATHYLAGUS SP	.000	.000	.000	.000	.000	.000	.000	.005	.000	.000	.253
CARAPIDAE SP.	.000	.000	.000	.039	.000	.000	.000	.000	.000	.000	.392
CYCLOTHONE SP.	.000	.159	.034	.039	.000	.000	.000	.000	.000	.000	2.321
IMMATURE GONOSTOMATIDAE	.000	.000	.000	.000	.000	.000	.015	.000	.000	.000	.379
LAMPANYCTUS SP.	.000	.000	.034	.039	.000	.000	.000	.000	.000	.000	.733
UNIDENTIFIED FISH LARVE	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.400

TOW 8 19/09/85 0830H	42 44.89 N	61 15.80							
SAMPLE	9	8	7	6	5	4	3	2	
DEPTH1 (M)	250.0	300.0	350.0	400.0	450.0	500.0	550.0	650.0	
DEPTH2 (M)	300.0	350.0	400.0	450.0	500.0	550.0	650.0	800.0	
VOLUME OF WATER SAMPLED (M3)	252.	201.	199.	187.	154.	175.	285.	391.	
TOTAL BIOMASS (G/M3)	.016	.015	.014	.021	.045	.036	.045	.045	18.551
EUPHAUSIACEA BIOMASS (G/M3)	.000	.000	.000	.004	.001	.001	.000	.000	
SIPHONOPHORA	.00	.00	.00	.00	.00	.00	.19	.00	18.69
LIMACINA HELICOIDES	.05	.00	.00	.05	.15	.00	.09	.00	22.08
LIMACINA INFLATA	.16	.08	.00	.45	.89	.38	.28	.10	181.47
LIMACINA LESUEURII	.00	.00	.00	.05	.00	.00	.00	.00	2.67
GYMNOSOMATA	.00	.16	.08	.00	.00	.00	.00	.00	11.99
EVADNE SP.	.00	.00	.00	.00	1.04	.00	.00	.00	51.98
DAMAGED CLADOCERA	.00	.00	.00	.00	.15	.00	.00	.03	12.54
CONCHOECIA AMETRA	.00	.00	.00	.00	.00	.00	.00	.07	10.22
CONCHOECIA BOREALIS	.00	.00	.00	.00	.15	.00	.00	.34	58.54
CONCHOECIA CURTA	.53	.96	1.13	.64	.59	.08	.19	.00	214.82
CONCHOECIA DAPHOIDES	.00	.00	.00	.00	.00	.08	.00	.00	3.82
CONCHOECIA INERMIS	.00	.00	.00	.00	.00	.00	.00	.03	5.11
CONCHOECIA OBTUSATA	.00	.00	.00	.05	.00	.08	.00	.07	16.71
CONCHOECIA SPINIFERA	.05	.00	.00	.00	.15	.00	.00	.00	10.07
CONCHOECIA ATLANTICA	.00	.00	.00	.00	.00	.00	.00	.03	5.11
CONCHOECIA SPINIROSTRIS	.00	.00	.00	.00	.30	.00	.00	.07	29.18
CONCHOECIA SP.	.48	.00	.48	.08	.30	.00	.19	.17	111.02
CONCHOECIA IMBRICATA	.00	.00	.00	.00	.00	.00	.00	.00	4.02
ACARTIA LONGIREMIS	.00	.24	.00	.03	.00	.15	.00	.00	24.95
AETIDEUS ARMATUS	.00	.00	.00	.00	.00	.00	.00	.00	8.01
AMALLOTHRIX SP.	.00	.00	.00	.00	.00	.00	.09	.00	9.34
ARIETELLUS SP.	.00	.00	.00	.00	.00	.00	.00	.03	5.11
CALANUS FINMARCHICUS-TOTAL	.16	.24	.97	.80	23.32	17.10	14.95	2.93	4063.41
CALANUS FINMARCHICUS (D)	.00	.00	.00	.00	.00	.00	.00	.10	19.15
CALANUS FINMARCHICUS (S)	.00	.00	.00	.03	.15	.31	.28	.24	87.83
CALANUS FINMARCHICUS VIF	.00	.00	.00	.03	.15	.38	.00	.34	78.95
CALANUS FINMARCHICUS V	.16	.16	.64	.45	21.68	16.33	14.39	2.42	3773.41
CALANUS FINMARCHICUS IV	.00	.08	.32	.32	1.49	.38	.56	.17	211.05
CALANUS GLACIALIS V	.11	.08	.08	.05	1.04	.84	3.64	.44	540.77
CALANUS GLACIALIS IV	.00	.00	.00	.03	.00	.00	.00	.00	5.32
CALANUS HYPERBOREUS-TOTAL	.00	.00	.00	.05	.00	.15	.65	.41	141.86
CALANUS HYPERBOREUS V	.00	.00	.00	.00	.00	.00	.28	.24	71.65
CALANUS HYPERBOREUS IV	.00	.00	.00	.05	.00	.00	.28	.17	60.87
CALANUS SP.	.00	.00	.00	.85	1.04	2.21	.37	.17	272.28
CALOCALANUS PAVO	.00	.00	.00	.00	.00	.00	.00	.00	3.82
CALOCALANUS PLUMULOSUS	.00	.00	.00	.00	.15	.00	.00	.00	15.25
CENTROPAGES BRADYI	.00	.00	.00	.16	.15	.15	.09	.00	32.41
CHIRIDIUS GRACILIS	.11	.00	.16	.00	.00	.00	.00	.00	13.33
CLAUSOCALANUS ARCUICORNIS	.00	.00	.24	.24	.00	.00	.00	.00	28.07
CLAUSOCALANUS FURCATUS	.58	.32	.16	.16	.00	.15	.00	.00	68.71
CORYCAEUS GIESBRECHTI	.00	.00	.00	.03	.00	.00	.00	.00	1.33
CORYCAEUS SP.	.00	.00	.00	.00	.00	.00	.00	.00	3.99
EUAUGAPTILUS SP.	.00	.00	.00	.00	.00	.00	.00	.03	5.11
EUCHAETA ACUTA	.00	.00	.00	.00	.00	.00	.00	.00	3.99
EUCHEATA NORVEGICA	.00	.00	.00	.27	.00	.00	.47	.75	176.53
EUCHEATA SP.	.21	.24	.80	.00	.74	.23	.00	.00	111.33
GAETANUS MINOR	.00	.00	.00	.00	.00	.00	.00	.00	8.01
GAETANUS SP. IMMATURE	.00	.00	.00	.00	.00	.00	.00	.10	15.33
GAIDIUS TENUISPINUS	.05	.00	.72	.05	.45	.23	.93	.31	218.66
GAIDIUS BREVISPINUS	.00	.00	.00	.00	.00	.00	.00	.03	5.11
HALOPTILUS LONGICORNIS	.05	.00	.00	.00	.00	.00	.00	.00	6.63
MACROSTELLA GRACILIS	.00	.00	.00	.05	.00	.00	.09	.00	12.01
MECYNOCERA CLAUSI	.00	.00	.00	.11	.15	.38	.00	.00	35.83
METRIDIA LONGA	.00	.00	.00	.00	.30	.15	.56	.07	88.77
METRIDIA LUCENS	.32	.56	.64	.32	.74	.31	1.21	.72	373.15
OITHONA ATLANTICA	.16	.32	.08	.21	.00	.15	.37	.00	83.58
OITHONA SIMILIS	.05	.00	.00	.00	.30	.15	.00	.03	30.24
ONCAEA CONIFERA	.05	.00	.00	.00	.15	.00	.00	.03	15.18
ONCAEA SP.	.16	.00	.00	.13	.30	.15	.37	.24	110.24
PARACALANUS PARVUS	.00	.00	.00	.05	.00	.00	.00	.00	2.67
PLEUROMAMMA BOREALIS	8.46	10.84	7.80	.67	.74	.15	.19	.07	1462.23
PLEUROMAMMA GRACILIS	.05	.00	.00	.00	.00	.00	.00	.00	6.63
PLEUROMAMMA ROBUSTA	.00	.48	.48	.99	2.08	.31	.00	.00	216.66
PLEUROMAMMA SP.	4.07	.48	.08	.00	.30	.00	.09	.03	260.79
PLEUROMAMMA XIPHIAS	.00	.00	.00	.05	.00	.00	.00	.00	2.67
PSEUDOCALANUS MINUTUS	.11	.40	.48	.08	.00	.31	.28	.00	96.65
RHINCALANUS CORNUTUS	.00	.32	.24	.19	.15	.00	.00	.07	55.00

TOW 8 19/09/85 0830H (CONTINUED)

SAMPLE	9	8	7	6	5	4	3	2	
RHINCALANUS NASUTUS	.05	.00	.00	.03	.00	.00	.00	.03	9.09
SCAPHOCALANUS BREVICORNIS	.00	.00	.00	.00	.15	.00	.00	.03	12.54
SCAPHOCALANUS MAGNUS	.00	.00	.00	.13	.30	.00	.00	.00	21.53
SCAPHOCALANUS MEDIUS	.00	.00	.00	.00	.00	.00	.09	.00	9.34
SCAPHOCALANUS SP.	.00	.00	.00	.00	.00	.00	.00	.00	4.02
SCOLECITHRICELLA MINOR	.21	.08	.40	.11	.00	.08	.00	.03	48.94
SCOTTCALANUS SECURIFRONS	.00	.00	.00	.00	.00	.15	.00	.00	7.63
SPINOCALANUS ABYSSALLIS	.05	.16	.64	.16	1.34	.00	.19	.00	136.32
SPINOCALANUS SP.	.00	.00	.00	.00	.15	.00	.09	.44	87.03
TEMORA LONGICORNIS	.00	.00	.00	.00	.00	.00	.00	.00	4.02
XANTHOCALANUS BOREALIS	.00	.00	.00	.00	.00	.00	.09	.10	28.70
UNID/DAM/E>0 COPEPOD	5.60	3.03	3.46	2.86	2.82	4.05	1.59	2.32	1597.19
AMPHIPOD-DAMAGED	.00	.00	.00	.00	.00	.00	.00	.03	5.11
PARATHEMISTO SP.	.00	.00	.00	.00	.00	.00	.09	.10	24.68
UNIDENTIFIED AMPHIPOD	.05	.00	.00	.00	.00	.00	.00	.03	7.75
UNIDENTIFIED CALYPTOSIS	.00	.00	.00	.00	.00	.00	.09	.00	9.34
T. LONGICAUDATA FURCILIAE	.05	.00	.00	.00	.00	.00	.00	.00	2.64
THYSANOESSA SP. CALYPTOSIS	.00	.08	.00	.03	.00	.00	.00	.00	5.32
DAMAGED FURCILIAE	.00	.00	.00	.03	.00	.00	.00	.00	5.36
ECHINODERMATA-LARVAE	.00	.00	.00	.00	.15	.00	.00	.00	7.43
SAGITTA ELEGANS	.00	.00	.00	.00	.00	.00	.00	.00	3.82
SAGITTA MAXIMA	.00	.00	.00	.00	.00	.00	.00	.03	5.11
DAMAGED CHAETOGNATH	.00	.00	.00	.00	.00	.00	.00	.03	5.11
OIKOPLEURA SP.	.00	.00	.00	.00	.00	.00	.00	.00	4.02
AMMODYTES SP.	.00	.00	.00	.03	.00	.00	.00	.00	1.33

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

UNIDENTIFIED SIPHONOPHORE	.000	.000	.000	.000	.000	.000	.000	.003	.383
PERIPHYLLA	.000	.000	.000	.000	.000	.000	.004	.005	1.117
UNIDENTIFIED MEDUSA	.000	.000	.000	.000	.000	.000	.014	.000	1.402
CTENOPHORA	.000	.000	.000	.000	.000	.000	.000	.003	.383
LIMACINA SP.	.000	.000	.000	.000	.000	.000	.000	.003	.383
THECOSOMATA	.000	.005	.000	.000	.000	.000	.000	.000	.249
UNIDENTIFIED POLYCHAET	.000	.000	.000	.000	.000	.000	.000	.003	.383
AMPHIPODA	.000	.000	.005	.000	.000	.000	.004	.003	.985
UNIDENTIFIED GAMMARID	.000	.000	.005	.000	.000	.000	.004	.000	.602
UNIDENTIFIED AMPHIPOD	.000	.000	.000	.000	.000	.000	.000	.003	.383
MYSIDACEA	.000	.000	.000	.000	.000	.000	.011	.023	4.501
BOREOMYSIS SP.	.000	.000	.000	.000	.000	.000	.011	.015	3.351
EUCOPIA SP.	.000	.000	.000	.000	.000	.000	.000	.008	1.150
EUPHAUSIACEA	.032	.025	.010	.037	.039	.029	.000	.000	8.583
MEGANYCTIPHANES NORVEGICA	.000	.000	.000	.027	.000	.000	.000	.000	1.335
NEMATOSCELIS MEGALOPS	.008	.000	.000	.000	.019	.011	.000	.000	1.944
THYSANOESSA LONGICAUDATA	.000	.010	.005	.005	.019	.011	.000	.000	2.564
THYSANOPODA SP.	.024	.010	.005	.005	.000	.006	.000	.000	2.492
DAMAGED/UNIDENTIFIED EUPHAUS	.000	.005	.000	.000	.000	.000	.000	.000	.249
DECAPODA	.000	.000	.010	.011	.052	.029	.018	.010	8.352
CARIDEA	.000	.000	.000	.005	.006	.000	.000	.000	.592
GENNADAS SP.	.000	.000	.000	.000	.000	.000	.004	.003	.734
SERGESTES SP.	.000	.000	.005	.005	.045	.017	.011	.003	5.086

TOW 8 19/09/85 0830H (CONTINUED)

SAMPLE	9	8	7	6	5	4	3	2	
UNIDENTIFIED DECAPOD	.000	.000	.005	.000	.000	.011	.004	.003	1.558
CHAETOGNATHA	.024	.060	.025	.005	.019	.034	.074	.074	26.870
EUKHRONIA FOWLERI	.000	.000	.000	.000	.000	.000	.000	.015	2.300
EUKHRONIA HAMATA	.000	.005	.025	.005	.019	.017	.053	.036	14.229
SAGITTA ELEGANS	.004	.000	.000	.000	.000	.000	.004	.000	.549
SAGITTA MAXIMA	.000	.000	.000	.000	.000	.000	.000	.008	1.150
UNIDENTIFIED CHAETOGNATH	.000	.025	.000	.000	.000	.017	.018	.015	6.156
SAGITTA SP.	.020	.030	.000	.000	.000	.000	.000	.000	2.486
PICES	.004	.005	.010	.000	.006	.006	.077	.028	13.486
ANGUILLA ROSTRATA	.000	.000	.000	.000	.000	.000	.000	.003	.383
BENTHOSEMA GLACIALE	.004	.000	.000	.000	.000	.000	.000	.003	.582
CERATOSCOPELUS SP.	.000	.000	.000	.000	.000	.000	.004	.000	.350
CHAULIODIUS SP.	.000	.000	.000	.000	.006	.000	.000	.000	.325
CYCLOTHONE SP.	.000	.000	.000	.000	.000	.000	.043	.023	9.757
DIAPHUS SP.	.000	.005	.010	.000	.000	.000	.000	.000	.752
IMMATURE GONOSTOMATIDAE	.000	.000	.000	.000	.000	.000	.004	.000	.350
IMMATURE MYCTOPHID	.000	.000	.000	.000	.000	.006	.007	.000	.987

TOW 12 21/09/85 1330H	45 45.21 N 59 50.68										
SAMPLE	1	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	.0	10.0	20.0	30.0	35.0	40.0	45.0	50.0	55.0	65.0	
DEPTH2 (M)	10.0	20.0	30.0	35.0	40.0	45.0	50.0	55.0	65.0	90.0	
VOLUME OF WATER SAMPLED (M3)	37.	28.	28.	16.	15.	14.	14.	24.	32.	105.	
TOTAL BIOMASS (G/M3)	.040	.166	.154	.068	.085	.041	.059	.010	.030	.076	7.114
EUPHAUSIACEA BIOMASS (G/M3)	.006	.014	.003	.001	.036	.000	.000	.000	.000	.018	

SPECIES	NUMBER PER CUBIC METER										#/M2
FORAMINIFERA	.00	.00	.00	.00	.00	.00	.35	.00	.00	.00	1.76
LIMACINA HELICOIDES	.00	.00	.00	1.23	3.90	1.84	2.11	.28	.42	.61	66.16
LIMACINA LESUEURII	.00	.00	.00	14.72	1.30	.00	1.06	.42	.10	.00	88.52
LIMACINA TROCHIFORMIS	.00	.00	.00	1.23	.65	.00	.00	.00	.00	.00	9.38
LIMACINA SP.	15.05	57.14	45.71	.00	.00	.00	.00	.00	.00	.30	1186.73
GYMNOSOMATA	.00	.00	.00	2.45	.00	.00	.00	.00	.00	.00	12.27
BIVALVE LARVAE	2.15	3.81	.00	1.84	.65	.00	.00	.14	.00	.00	72.74
POLYCHAETA LARVAE	.00	.00	2.86	.00	.00	.00	.00	.00	.00	.00	28.57
EVADNE SP.	.00	.00	.00	.00	.00	.37	.00	.00	.00	.00	1.84
EVADNE NORDMANNI	10.22	72.38	2.86	.00	1.30	.00	2.11	.14	.10	.00	873.32
EVADNE SPINIFERA	.00	.00	.00	.00	.00	.74	.00	.00	.00	.00	3.68
PODON SP.	.00	.00	.00	.00	.00	.00	.00	.00	.21	.00	2.08
PODON LEUCKARTI	66.13	121.90	20.00	.00	1.30	.37	1.76	.56	.00	.00	2100.25
DAMAGED CLADOCERA	2.69	.00	.00	.00	.00	.00	.00	.00	.00	.30	34.50
ACARTIA LONGIREMIS	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	1.04
CALANUS FINMARCHICUS-TOTAL	74.19	514.29	571.43	90.18	37.66	31.25	33.45	7.08	18.65	56.38	14193.21
CALANUS FINMARCHICUS (D)	.00	.00	.00	1.23	.00	.00	.70	.00	.00	.00	9.66
CALANUS FINMARCHICUS (G)	.54	.00	11.43	3.07	1.30	.37	1.41	.21	.52	.30	164.24
CALANUS FINMARCHICUS (S)	.54	.00	.00	1.23	.00	.00	.00	.00	.63	.30	25.38
CALANUS FINMARCHICUS VIM	.00	.00	.00	.00	.00	.00	.00	.07	.31	.00	3.47
CALANUS FINMARCHICUS VIF	1.08	.00	11.43	5.52	1.30	.37	.00	.21	1.15	.61	188.72
CALANUS FINMARCHICUS V	1.61	26.67	40.00	14.72	12.99	9.56	13.38	2.71	12.40	53.94	2422.12
CALANUS FINMARCHICUS IV	1.61	156.19	185.71	42.94	16.23	8.46	7.94	1.25	2.50	.91	3062.67
CALANUS FINMARCHICUS III	10.22	133.33	137.14	8.59	5.19	2.94	4.58	1.18	.94	.30	2936.32
CALANUS FINMARCHICUS II	25.81	182.86	262.86	4.29	1.95	6.99	5.28	1.11	.94	.30	4830.30
CALANUS FINMARCHICUS I	33.87	15.24	14.29	14.11	.00	2.94	3.17	.56	.42	.30	749.61
CALANUS GLACIALIS V	.00	.00	.00	.00	.65	.00	.00	.07	.31	2.74	75.29
CALANUS GLACIALIS IV	.00	.00	.00	.00	.00	.00	.00	.00	.21	.61	17.32
CALANUS GLACIALIS III	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	7.62
CALANUS HYPERBOREUS-TOTAL	.00	.00	.00	.00	.65	.37	.35	.00	.10	3.35	91.70
CALANUS HYPERBOREUS IV	.00	.00	.00	.00	.65	.37	.35	.00	.10	3.05	84.08
CENTROPAGES BRADYI	.00	3.81	.00	.00	.00	.00	.00	.00	.00	.00	38.10
CENTROPAGES TYPICUS	.00	106.67	8.57	.00	3.90	2.57	1.41	.14	.52	.61	1212.91
CENTROPAGES SP.	15.59	.00	.00	.00	.00	.00	.00	.00	.00	.00	155.91
CLAUSOCALANUS FURCATUS	.00	7.62	.00	.00	.00	.00	.00	.00	.00	.00	76.19
EUCHEATA NORVEGICA	.00	.00	.00	.00	.00	.37	.00	.00	.00	.00	1.84
EUCHAETA TONSA	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	7.62
EUCHEATA SP.	.00	.00	.00	.00	.00	.00	.00	.00	.42	.30	11.79
METRIDIA LONGA	.00	3.81	.00	.61	.00	.00	.00	.00	.10	.00	42.20
METRIDIA LUCENS	3.23	.00	51.43	63.19	37.01	12.50	11.27	1.84	2.50	1.52	1234.70
MICROSTELLA SP.	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.35
OITHONA ATLANTICA	.00	.00	.00	.00	.65	.37	.00	.00	.21	.61	22.41
OITHONA SIMILIS	.00	.00	.00	.00	.00	1.10	.35	.00	.63	7.92	211.62
OITHONA SP.	1.08	.00	.00	.61	.00	.00	1.41	.14	.00	.00	21.56
PARACALANUS PARVUS	.00	.00	2.86	.61	.00	.00	.35	.00	.00	.00	33.40
PLEUROMAMMA BOREALIS	.00	.00	.00	.00	.00	.37	.00	.00	.00	.00	1.84
PLEUROMAMMA SP.	.00	.00	.00	.00	.00	.37	.00	.00	.00	.00	1.84
PSEUDOCALANUS MINUTUS	8.06	102.86	28.57	23.93	11.69	14.34	13.03	.00	.63	.91	1738.94
RHINCALANUS CORNUTUS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.91	22.86
SCOLECITHRICELLA MINOR	.00	.00	.00	.00	.00	.00	.00	.00	.10	.61	16.28
SPINOCALANUS ABYSSALLIS	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.52	38.10
TEMORA LONGICORNIS	6.45	118.10	111.43	46.63	13.64	6.99	5.63	1.46	2.19	.30	2760.95
UNID/DAM/EXO COPEPOD	52.15	76.19	57.14	30.67	63.64	45.59	17.25	4.51	15.31	4.57	2930.58
COPEPOD NAUPLII	.00	.00	.00	.00	.65	.00	.00	.00	.00	.00	3.25
PARATHEMISTO ABYSSORUM	.00	.00	.00	.00	.00	.00	.00	.07	.21	.00	2.43
PARATHEMISTO SP.	.00	.00	.00	.61	.00	.00	.00	.00	.00	.00	3.07
UNIDENTIFIED AMPHIPOD	.00	.00	.00	1.84	1.95	.00	.00	.00	.00	.00	18.94
M. NORVEGICA FURCILIA	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	1.04
UNIDENTIFIED CALYPTOSIS	.00	3.81	5.71	.00	.65	.00	.35	.00	.00	.00	100.25
EUPHAUSIID NAUPLII	12.90	83.81	8.57	.61	1.30	.74	1.06	.21	.10	.00	1073.44
DAMAGED EUPHAUSID	.00	3.81	.00	.00	.65	.00	.00	.07	.00	.00	41.69
UNIDENTIFIED EUPHAUSID	.00	.00	.00	.00	.00	.00	.35	.00	.00	.00	1.76
DAMAGED FURCILIAE	.00	.00	5.71	7.98	.65	.00	.00	.14	.00	.00	100.96

TOW 12 21/09/85 1330H (CONTINUED)

SAMPLE	1	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER										#/M2
ECHINODERMATA-LARVAE	.00	.00	14.29	.00	.65	2.94	3.52	1.39	1.25	.30	285.
OIKOPLEURA SP.	.00	.00	.00	.00	.00	5.88	.00	.00	4.69	.00	76.
UNIDENTIFIED APPENDICULARIA	.00	.00	.00	3.07	7.79	.00	.00	1.94	.00	.00	64.
DAMAGED APPENDICULARIA	.00	.00	.00	.00	.00	.00	.00	.00	4.48	.00	44.
FRITILLARIA SP.	.00	.00	.00	.00	.00	.00	.00	.21	.10	.00	2.
FISH EGGS	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	1.

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

AMPHIPODA	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.2
UNIDENTIFIED AMPHIPOD	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.2
EUPHAUSIACEA	.188	.214	.429	.184	.584	.000	.423	.083	.000	.248	20.8
MEGANYCTIPHANES NORVEGICA	.134	.143	.214	.061	.519	.000	.141	.000	.000	.000	8.5
THYSANOESSA INERMIS	.027	.036	.036	.061	.065	.000	.000	.000	.000	.171	5.9
THYSANOESSA LONGICAUDATA	.000	.000	.000	.000	.000	.000	.000	.000	.000	.076	1.9
DAMAGED/UNIDENTIFIED EUPHAUS	.027	.036	.17[illegible]	.061	.000	.000	.282	.042	.000	.000	4.3
THYSANOESSA SP.	.000	.000	.0[illegible]	.000	.000	.000	.000	.042	.000	.000	.2
CHAETOGNATHA	.000	.000	[illegible]	.000	.000	.000	.000	.042	.156	.648	17.9
EUKHRONIA HAMATA	.000	.000	.000	.000	.000	.000	.000	.000	.000	.010	.2
SAGITTA ELEGANS	.000	.000	.000	.000	.000	.000	.000	.042	.156	.638	17.7

TOW 13 21/09/85 1745H	45 27.65 N 59 39.28								
SAMPLE	2	3	4	5	6	7	8	9	
DEPTH1 (M)	110.0	90.0	75.0	65.0	55.0	45.0	35.0	25.0	
DEPTH2 (M)	90.0	75.0	65.0	55.0	45.0	35.0	25.0	15.0	
VOLUME OF WATER SAMPLED (M3)	91.	90.	56.	54.	92.	33.	38.	40.	
TOTAL BIOMASS (G/M3)	.232	.144	.085	.067	.107	.117	.111	.261	14.262
EUPHAUSIACEA BIOMASS (G/M3)	.001	.010	.001	.000	.000	.000	.000	.000	
UNIDENTIFIED/DAMAGED MEDUSA	.00	.00	.36	.25	.43	.00	.00	.00	10.41
LIMACINA BULIMOIDES	.00	.00	.00	.00	.00	.00	3.50	.00	35.00
LIMACINA HELICOIDES	.00	.00	.00	.00	.00	.00	2.80	.00	28.00
LIMACINA INFLATA	.00	.00	.00	.25	.00	.00	.70	.00	9.47
LIMACINA LESUEURII	.00	.00	1.44	.49	.43	3.26	1.40	153.52	1605.45
LIMACINA TROCHIFORMIS	.00	.00	.00	.00	.00	.00	1.40	15.88	172.81
GYMNOSOMATA	.00	.00	.00	.00	.00	.00	.70	.00	7.00
BIVALVE LARVAE	.00	.00	.00	.00	.00	.00	.70	.00	7.00
EVADNE NORDMANNI	.88	.00	.00	.00	.00	.00	.00	.00	17.58
PODON LEUCKARTI	.00	.00	.36	.25	.00	.00	.00	.00	6.07
CALANUS FINMARCHICUS-TOTAL	96.70	22.64	63.67	32.35	65.65	100.31	144.88	672.29	13065.15
CALANUS FINMARCHICUS (D)	.00	.00	.00	.49	5.22	3.26	.00	.00	89.73
CALANUS FINMARCHICUS (G)	.00	.00	.00	.00	.00	.00	1.40	.00	14.00
CALANUS FINMARCHICUS (S)	1.76	.00	.72	.25	.00	.00	7.00	.00	114.82
CALANUS FINMARCHICUS VIM	.00	.00	.00	.00	.43	.82	2.10	.00	33.50
CALANUS FINMARCHICUS VIF	1.76	.00	.72	.74	5.22	3.26	8.40	.00	218.55
CALANUS FINMARCHICUS V	69.45	19.24	46.04	20.25	50.43	73.39	112.69	95.29	5658.49
CALANUS FINMARCHICUS IV	25.49	2.52	10.79	7.16	5.65	15.49	15.40	275.27	3845.28
CALANUS FINMARCHICUS III	.00	.44	3.60	2.96	2.61	7.34	4.90	232.92	2549.93
CALANUS FINMARCHICUS II	.00	.30	1.44	1.23	.87	.00	.00	58.23	622.17
CALANUS FINMARCHICUS I	.00	.15	1.08	.00	.43	.00	1.40	10.59	137.23
CALANUS GLACIALIS (D)	.88	.00	.00	.00	.00	.00	.00	.00	17.58
CALANUS GLACIALIS VIF	.88	.00	.00	.00	.00	.00	.00	.00	17.58
CALANUS GLACIALIS V	.00	.44	.36	.00	1.30	1.63	1.40	.00	53.61
CALANUS GLACIALIS IV	18.46	.89	2.52	.25	.87	.00	.70	.00	425.89
CALANUS GLACIALIS III	.00	.15	.00	.00	.00	.00	.00	.00	2.22
CALANUS HYPERBOREUS-TOTAL	29.89	5.62	11.51	1.73	.87	.00	1.40	.00	837.24
CALANUS HYPERBOREUS V	1.76	.15	.36	.00	.00	.00	.00	.00	40.98
CALANUS HYPERBOREUS IV	26.37	4.14	8.99	1.23	.87	.00	1.40	.00	714.59
CENTROPAGES TYPICUS	.00	.15	3.24	1.23	.43	3.26	5.60	84.70	986.88
CLAUSOCALANUS FURCATUS	.00	.00	.00	.25	.00	.00	.00	10.59	1[illegible]34
EUCHEATA NORVEGICA	.00	.15	.00	.00	.00	.00	.00	.00	2.22
EUCHEATA SP.	.00	.00	.00	.25	.00	.00	.00	.00	2.47
METRIDIA LONGA	.00	.00	.36	.00	.43	.00	.70	.00	14.94
METRIDIA LUCENS	7.03	2.66	8.63	11.85	21.30	4.89	9.80	21.17	957.17
MICROCALANUS PYGMAEUS	.00	.00	.36	.00	.00	.00	.00	.00	3.60
OITHONA ATLANTICA	.88	.89	27.70	.00	1.74	.00	.00	5.29	378.21
OITHONA SIMILIS	.00	.00	.00	.00	.43	.82	.70	5.29	72.44
OITHONA SP.	.00	.44	1.80	.25	.43	.00	.00	.00	31.46
PARACALANUS PARVUS	.00	.00	.00	.00	.00	.00	.70	5.29	59.94
PSEUDOCALANUS MINUTUS	6.15	3.85	14.03	6.67	10.43	36.70	61.59	444.67	5921.64
TEMORA LONGICORNIS	.00	.74	3.24	1.73	4.35	1.63	.70	79.40	921.59
UNID/DAM/EXO COPEPOD	17.58	.00	23.74	12.35	10.43	25.28	23.10	243.51	3735.71
PARATHEMISTO ABYSSORUM	.00	.00	.36	.00	.00	.00	.00	.00	3.60
PARATHEMISTO SP.	.00	.00	.00	.00	.00	.00	.00	5.29	52.94
UNIDENTIFIED AMPHIPOD	.00	.00	.00	.00	.43	.00	.00	.00	4.35
M. NORVEGICA ADULT	.00	.00	.00	.25	.00	.00	.00	.00	2.47
M. NORVEGICA CALYPTOSIS	.00	.00	.00	.00	.00	.00	.00	31.76	317.62
M. NORVEGICA FURCILIA	.00	.00	.00	.00	.43	.00	.00	.00	4.35
THYSANOESSA RASCHII FURCILIA	.00	.00	.00	.00	.00	1.63	4.90	.00	65.30
THYSANOESSA SP. FURCILIAE	.00	.00	.00	.00	.00	.00	2.10	.00	21.00
EUPHAUSIID EGGS	.00	.00	.00	.00	.00	.82	.00	.00	8.15
EUPHAUSIID NAUPLII	.00	.00	.00	.00	.43	.00	.00	.00	4.35
DAMAGED FURCILIAE	.00	.15	.36	.00	.00	.82	.70	5.29	73.91
ECHINODERMATA-LARVAE	1.76	.00	.36	.00	.43	1.63	.00	10.59	165.29
SAGITTA SP.	.00	.00	.36	.00	.00	.00	.00	.00	3.60
OIKOPLEURA SP.	.00	.00	.00	.00	.00	1.63	.00	.00	16.31
UNIDENTIFIED APPENDICULARIA	.00	.00	.00	.00	2.17	.00	.00	.00	21.74
DAMAGED APPENDICULARIA	.00	.00	.00	.00	.00	8.97	.00	.00	89.70

TOW 13 21/09/85 1745H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	9	
L A R G E M E S O Z O O P L A N K T O N & I C H T H Y O P L A N K T O N									
UNIDENTIFIED SIPHONOPHORE	.022	.000	.000	.019	.000	.000	.000	.000	.625
CTENOPHORA	.022	.011	.000	.000	.000	.000	.000	.000	.606
AMPHIPODA	.022	.022	.000	.000	.000	.000	.000	.000	.773
PARATHEMISTO GAUDICHAUDII	.022	.022	.000	.000	.000	.000	.000	.000	.773
EUPHAUSIACEA	.121	1.132	.188	.037	.043	.000	.000	.000	21.283
MEGANYCTIPHANES NORVEGICA	.044	.000	.000	.000	.011	.003	.000	.000	.988
THYSANOESSA INERMIS	.000	1.132	.188	.000	.033	.000	.000	.000	18.386
THYSANOESSA LONGICAUDATA	.077	.000	.000	.037	.000	.000	.000	.000	1.909
CHAETOGNATHA	.615	2.675	1.529	2.000	1.287	.367	.236	.149	107.304
EUKHRONIA HAMATA	.000	.000	.000	.000	.000	.000	.000	.025	.248
SAGITTA ELEGANS	.582	2.675	1.529	2.000	1.287	.306	.236	.124	105.784
UNIDENTIFIED CHAETOGNATH	.033	.000	.000	.000	.000	.061	.000	.000	1.271
UNIDENTIFIED	.000	.000	.000	.000	.011	.031	.000	.000	.415

TOW 14 21/09/85 2130H	45 09.66 N	59 25.78								
SAMPLE	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	65.0	50.0	45.0	40.0	35.0	30.0	25.0	20.0	10.0	
DEPTH2 (M)	50.0	45.0	40.0	35.0	30.0	25.0	20.0	15.0	.0	
VOLUME OF WATER SAMPLED (M3)	111.	46.	46.	41.	50.	26.	31.	33.	73.	
TOTAL BIOMASS (G/M3)	.173	.183	.078	.052	.090	.333	.367	.518	.506	15.764
EUPHAUSIACEA BIOMASS (G/M3)	.000	.001	.000	.001	.002	.019	.003	.000	.000	

SPECIES	NUMBER PER CUBIC METER									#/M2
LIMACINA HELICOIDES	.00	.00	5.26	5.20	7.42	6.11	6.97	.00	420.82	4363.85
LIMACINA LESUEURII	1.15	5.59	1.75	.00	2.12	3.05	6.97	.00	350.68	3621.59
LIMACINA TROCHIFORMIS	.00	.00	.00	.00	2.12	.00	.00	.00	175.34	1764.03
BIVALVE LARVAE	.00	.00	.00	.00	2.12	.00	.00	12.93	52.60	681.28
EVADNE SP.	.00	.00	1.75	.00	1.06	.00	.00	.00	.00	14.07
EVADNE NORDMANNI	.00	.00	1.75	.00	2.12	.00	.00	.00	227.95	2298.83
EVADNE SPINIFERA	.00	.00	.00	.00	.00	.00	.00	.00	70.14	701.37
PODON LEUCKARTI	.00	1.40	3.51	.65	.00	3.05	.00	.00	298.08	3023.87
CALANUS FINMARCHICUS-TOTAL	138.38	152.31	78.95	35.77	39.23	207.63	383.27	782.22	1174.79	21820.57
CALANUS FINMARCHICUS (D)	2.31	.00	.00	.65	.00	24.43	6.97	.00	.00	194.84
CALANUS FINMARCHICUS (G)	.00	.00	.00	.65	1.06	12.21	3.49	6.46	.00	119.37
CALANUS FINMARCHICUS (S)	.00	1.40	1.75	.00	5.30	.00	.00	.00	.00	42.27
CALANUS FINMARCHICUS VIF	2.31	1.40	1.75	1.30	6.36	36.64	10.46	6.46	.00	356.48
CALANUS FINMARCHICUS V	71.50	68.47	29.82	22.11	11.66	91.60	156.86	155.15	280.55	6556.37
CALANUS FINMARCHICUS IV	64.58	76.86	19.30	5.20	8.48	54.96	111.55	213.33	508.49	8501.99
CALANUS FINMARCHICUS III	.00	5.59	8.77	2.60	6.36	21.37	13.94	213.33	227.95	3639.33
CALANUS FINMARCHICUS II	.00	.00	17.54	3.90	5.30	3.05	10.46	161.62	87.67	1886.09
CALANUS FINMARCHICUS I	.00	.00	1.75	.65	1.06	.00	.00	32.32	70.14	880.31
CALANUS GLACIALIS V	2.31	1.40	.00	.00	1.06	3.05	.00	.00	.00	62.15
CALANUS GLACIALIS IV	16.14	4.19	1.75	.00	.00	.00	.00	.00	.00	271.89
CALANUS GLACIALIS III	.00	1.40	.00	.00	.00	.00	.00	.00	.00	6.99
CALANUS HYPERBOREUS-TOTAL	11.53	18.17	5.26	.00	.00	.00	.00	.00	.00	290.12
CALANUS HYPERBOREUS IV	9.23	11.18	3.51	.00	.00	.00	.00	.00	.00	211.82
CENTROPAGES TYPICUS	.00	.00	3.51	.65	1.06	3.05	.00	6.46	35.07	424.37
METRIDIA LONGA	2.31	4.19	.00	.65	6.36	33.59	10.46	.00	.00	310.84
METRIDIA LUCENS	11.53	22.36	19.30	3.90	3.18	12.21	10.46	45.25	52.60	1282.32
OITHONA ATLANTICA	.00	4.19	1.75	1.95	.00	.00	.00	6.46	.00	71.81
OITHONA SIMILIS	.00	2.79	31.58	.00	1.06	.00	3.49	19.39	52.60	817.60
PSEUDOCALANUS MINUTUS	101.48	146.72	321.05	94.31	142.08	406.11	610.02	652.93	1928.77	32675.96
TEMORA LONGICORNIS	1.15	1.40	7.02	1.95	9.54	12.21	66.23	252.12	263.01	4399.81
UNID/DAM/EXO COPEPOD	41.51	78.25	133.33	29.27	57.26	131.30	163.83	116.36	157.81	5748.82
UNIDENTIFIED HARPACTICOID	1.15	.00	.00	.00	.00	.00	.00	.00	.00	17.30
THYSANOESSA RASCHII FURCILIA	.00	.00	.00	.00	.00	.00	.00	19.39	.00	96.97
UNIDENTIFIED CALYPTOSIS	.00	.00	.00	.00	.00	.00	.00	6.46	.00	32.32
T. LONGICAUDATA FURCILIAE	.00	.00	.00	.00	.00	3.05	.00	.00	.00	15.27
THYSANOESSA SP. FURCILIAE	.00	.00	.00	.00	.00	.00	.00	6.46	.00	32.32
EUPHAUSIID NAUPLII	.00	.00	.00	.00	.00	.00	.00	.00	35.07	350.68
DAMAGED FURCILIAE	.00	.00	.00	.00	.00	.00	.00	6.46	.00	32.32
ECHINODERMATA-LARVAE	.00	.00	.00	.00	.00	.00	.00	.00	17.53	175.34
OIKOPLEURA SP.	.00	.00	.00	.00	6.36	18.32	.00	12.93	.00	188.06
OIKOPLEURA VANHOEFFENI	.00	.00	.00	.00	.00	.00	6.97	.00	.00	34.86
DAMAGED APPENDICULARIA	.00	6.99	5.26	.65	.00	12.21	31.37	12.93	17.53	522.42

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

UNIDENTIFIED SIPHONOPHORE	.000	.000	.000	.000	.000	.000	.000	.152	.000	.758
AMPHIPODA	.000	.000	.000	.000	.000	.000	.033	.000	.000	.163
PARATHEMISTO GAUDICHAUDII	.000	.000	.000	.000	.000	.000	.033	.000	.000	.163
CUMACEAN	.009	.022	.000	.024	.000	.000	.000	.000	.000	.366
MYSIDACEA	.036	.066	.000	.000	.040	.115	.033	.000	.014	1.940
BOREOMYSIS SP.	.036	.066	.000	.000	.040	.115	.033	.000	.014	1.940
EUPHAUSIACEA	.000	.066	.000	.098	.298	2.710	.523	.030	.014	18.759
MEGANYCTIPHANES NORVEGICA	.000	.022	.000	.000	.000	.038	.000	.030	.000	.452
THYSANOESSA INERMIS	.000	.044	.000	.098	.298	2.519	.359	.000	.014	16.727
THYSANOESSA LONGICAUDATA	.000	.000	.000	.000	.000	.153	.163	.000	.000	1.580
DECAPODA	.000	.000	.000	.000	.040	.000	.000	.000	.000	.199
PANDALUS MONTAQUI	.000	.000	.000	.000	.040	.000	.000	.000	.000	.199
CHAETOGNATHA	.045	.240	.132	.171	.517	1.832	1.569	.818	.041	27.478
SAGITTA ELEGANS	.027	.197	.132	.171	.517	1.832	1.569	.818	.041	26.989
UNIDENTIFIED CHAETOGNATH	.018	.044	.000	.000	.000	.000	.000	.000	.000	.489

TOW 15 22/09/85 0830H	44 50.47 N 59 12.14								
SAMPLE	3	4	5	6	7	8	9	10	
DEPTH1 (M)	75.0	70.0	60.0	50.0	40.0	30.0	20.0	10.0	
DEPTH2 (M)	70.0	60.0	50.0	40.0	30.0	20.0	10.0	.0	
VOLUME OF WATER SAMPLED (M3)	370.	418.	504.	563.	608.	648.	42.	32.	
TOTAL BIOMASS (G/M3)	.012	.007	.007	.006	.023	.014	.171	.286	5.187
EUPHAUSIACEA BIOMASS (G/M3)	.000	.000	.000	.000	.000	.000	.000	.000	
LIMACINA BULIMOIDES	.00	.00	.00	.00	.00	.00	3.81	.00	38.10
LIMACINA HELICOIDES	.36	.14	.19	.09	.18	.00	.00	30.09	308.78
LIMACINA LESUEURII	.00	.05	.06	.05	.18	.25	259.05	.00	2596.29
LIMACINA TROCHIFORMIS	.22	.00	.06	.00	.35	.25	22.86	.00	236.27
BIVALVE LARVAE	.00	.00	.00	.00	.18	.25	.00	.00	4.22
EVADNE NORDMANNI	.07	.05	.13	.05	.35	.00	11.43	100.31	1123.51
EVADNE SPINIFERA	.07	.00	.00	.14	.18	.00	.00	10.03	103.85
PODON LEUCKARTI	.00	.00	.25	.09	.18	.25	3.81	190.60	1951.76
DAMAGED CLADOCERA	.00	.00	.00	.00	.00	.00	3.81	.00	38.10
CALANUS FINMARCHICUS-TOTAL	9.44	6.22	8.70	7.67	28.42	33.09	640.00	1715.36	24441.80
CALANUS FINMARCHICUS (D)	.00	.10	.32	.38	1.40	.49	.00	10.03	127.21
CALANUS FINMARCHICUS (G)	.00	.05	.06	.00	1.23	.25	.00	.00	15.86
CALANUS FINMARCHICUS (S)	.14	.05	.19	.05	.00	.99	3.81	.00	51.55
CALANUS FINMARCHICUS VIM	.00	.00	.19	.00	.18	.99	.00	.00	13.54
CALANUS FINMARCHICUS VIF	.14	.19	.57	.43	2.63	1.73	3.81	10.03	194.62
CALANUS FINMARCHICUS V	5.55	2.73	3.81	3.79	17.54	8.40	38.10	60.19	1373.23
CALANUS FINMARCHICUS IV	2.09	1.00	1.52	1.37	4.74	11.60	118.10	571.79	7111.71
CALANUS FINMARCHICUS III	.79	.96	1.59	1.18	2.46	6.91	285.71	812.54	11117.48
CALANUS FINMARCHICUS II	.58	.96	.95	.81	.88	2.72	179.05	230.72	4163.65
CALANUS FINMARCHICUS I	.29	.38	.06	.09	.00	.74	15.24	30.09	467.58
CALANUS GLACIALIS V	.29	.05	.00	.09	.00	.00	.00	.00	2.87
CALANUS GLACIALIS IV	.43	.10	.06	.00	.00	.00	.00	.00	3.75
CALANUS HYPERBOREUS-TOTAL	1.01	.14	.19	.19	.00	.00	.00	.00	10.28
CALANUS HYPERBOREUS IV	.79	.10	.13	.14	.00	.00	.00	.00	7.61
CENTROPAGES TYPICUS	.00	.00	.00	.05	.00	.00	3.81	20.06	239.20
METRIDIA LONGA	.14	.10	.00	.19	.00	.00	.00	.00	3.57
METRIDIA LUCENS	.22	.72	.89	.76	1.40	.25	34.29	.00	384.09
OITHONA ATLANTICA	.00	.05	.06	.00	.18	.00	11.43	40.13	518.41
OITHONA SIMILIS	.22	.43	.06	.00	.18	.00	.00	70.22	709.97
PSEUDOCALANUS MINUTUS	3.60	2.44	4.76	2.98	7.72	53.83	247.62	993.10	13142.57
TEMORA LONGICORNIS	.29	.24	.32	.05	.53	3.21	49.52	40.13	941.34
UNID/DAM/EXO COPEPOD	9.80	8.71	6.29	4.55	6.49	16.30	255.24	461.44	7639.09
PARATHEMISTO ABYSSORUM	.00	.00	.00	.00	.18	.00	.00	.00	1.75
THYSANOESSA RASCHII FURCILIA	.14	.00	.00	.05	.00	.25	.00	.00	3.66
UNIDENTIFIED CALYPTOSIS	.00	.00	.00	.00	.00	.00	19.05	10.03	290.79
THYSANOESSA SP. FURCILIAE	.00	.00	.06	.00	.00	.00	.00	.00	.63
EUPHAUSIID EGGS	.00	.00	.06	.00	.00	.00	.00	.00	.63
DAMAGED FURCILIAE	.22	.00	.00	.00	.00	.00	.00	.00	1.08
ECHINODERMATA-LARVAE	.00	.00	.00	.00	.18	.00	38.10	20.06	583.33
EUKRONIA HAMATUS	.00	.00	.00	.05	.18	.00	.00	.00	2.23
DAMAGED CHAETOGNATH	.00	.05	.00	.00	.00	.00	.00	.00	.48
DAMAGED APPENDICULARIA	.00	.05	.06	.00	.35	.49	.00	.00	9.56

L A R G E M E S O Z O O P L A N K T O N & I C H T H Y O P L A N K T O N

CTENOPHORA	.003	.000	.000	.000	.000	.000	.000	.000	.014
EUPHAUSIACEA	.000	.002	.000	.000	.000	.000	.000	.000	.024
THYSANOESSA INERMIS	.000	.002	.000	.000	.000	.000	.000	.000	.024
CHAETOGNATHA	.024	.005	.006	.005	.007	.002	.000	.000	.363
SAGITTA ELEGANS	.019	.005	.002	.002	.007	.002	.000	.000	.261
UNIDENTIFIED CHAETOGNATH	.005	.000	.004	.004	.000	.000	.000	.000	.102
PICES	.000	.000	.002	.000	.000	.002	.024	.000	.273
MERLUCCIUS BILINEARIS	.000	.000	.000	.000	.000	.002	.000	.000	.015
PARALICHTHYS SP.	.000	.000	.002	.000	.000	.000	.000	.000	.020
UROPHYCIS CHUSS	.000	.000	.000	000	.000	.000	.024	.000	.238

TOW 19 23/09/85 2245H	44 13.68 N 58 46.20									
SAMPLE	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	50.0	45.0	40.0	35.0	30.0	25.0	20.0	15.0	10.0	
DEPTH2 (M)	45.0	40.0	35.0	30.0	25.0	20.0	15.0	10.0	.0	
VOLUME OF WATER SAMPLED (M3)	43.	20.	27.	18.	19.	19.	18.	15.	28.	
TOTAL BIOMASS (G/M3)	.016	.027	.020	.035	.064	.065	.070	.082	.049	2.385
EUPHAUSIACEA BIOMASS (G/M3)	.002	.010	.000	.014	.035	.028	.029	.039	.009	

SPECIES	NUMBER PER CUBIC METER									#/M2
LIMACINA BULIMOIDES	.12	.00	.00	.00	.00	.00	.00	.00	.00	.58
LIMACINA INFLATA	.00	.17	.00	.00	.00	.00	.00	.00	.00	.85
LIMACINA LESUEURII	.00	.00	.00	.00	.00	.00	.00	.44	.00	2.21
GYMNOSOMATA	.00	.17	.00	.00	.00	.00	.00	.00	.00	.85
EVADNE SPINIFERA	.00	.00	.00	.00	.00	.00	.00	1.32	.00	6.62
CONCHOECIA CURTA	.00	.00	.00	.19	.00	.00	.00	.00	.00	.95
CONCHOECIA SP.	.00	.00	.00	.00	.00	.00	.00	.44	.00	2.21
ACARTIA CLAUSI	.00	.00	.00	.19	.00	.00	.00	.44	.00	3.15
ACARTIA SP.	.00	.00	.00	.00	.00	.00	.00	.00	.96	9.63
CALANUS FINMARCHICUS-TOTAL	1.05	1.37	2.23	2.27	4.81	4.43	23.48	34.44	135.74	1727.82
CALANUS FINMARCHICUS (D)	.00	.17	.00	.00	.30	.00	1.14	.88	.00	12.46
CALANUS FINMARCHICUS (G)	.00	.00	.00	.00	.30	.00	6.44	4.86	7.70	135.00
CALANUS FINMARCHICUS (S)	.00	.00	.25	.19	.00	.00	.00	.44	.00	4.39
CALANUS FINMARCHICUS VIM	.00	.00	.00	.00	.00	.00	.76	1.32	.96	20.04
CALANUS FINMARCHICUS VIF	.00	.17	.25	.19	.60	.00	7.58	6.18	7.70	151.85
CALANUS FINMARCHICUS V	.58	.34	.50	1.33	2.26	3.19	7.58	6.62	10.59	217.85
CALANUS FINMARCHICUS IV	.35	.17	.00	.00	.60	.89	2.65	3.97	10.59	149.06
CALANUS FINMARCHICUS III	.00	.17	.25	.00	.00	.00	3.41	4.86	11.55	158.95
CALANUS FINMARCHICUS II	.12	.17	.00	.19	.45	.18	.76	3.97	37.55	484.63
CALANUS FINMARCHICUS I	.00	.34	.00	.57	.90	.18	.76	7.51	56.80	619.25
CALANUS GLACIALIS V	.00	.00	.25	.00	.00	.18	.00	.00	.00	2.13
CALANUS GLACIALIS IV	.00	.00	.00	.00	.15	.00	.00	.00	.00	.75
CALANUS GLACIALIS III	.12	.00	.00	.00	.00	.00	.38	.00	.00	2.48
CALANUS HYPERBOREUS-TOTAL	.00	.00	.25	.00	.00	.00	.00	.00	.00	1.24
CALANUS HYPERBOREUS V	.00	.00	.25	.00	.00	.00	.00	.00	.00	1.24
CALANUS MINOR	.00	.00	.25	.00	.00	.00	.00	.44	.00	3.45
CALOCALANUS PAVO	.00	.00	.00	.00	.00	.00	.00	.44	1.93	21.46
CENTROPAGES TYPICUS	.00	.17	.00	.00	.15	.00	.00	.44	2.89	32.69
CLAUSOCALANUS ARCUICORNIS	.35	1.20	.50	.57	1.50	5.50	6.44	8.39	22.14	343.61
CLAUSOCALANUS FURCATUS	1.74	1.88	1.98	.57	.30	1.95	9.47	20.75	93.38	1127.85
CONAEA RAPAX	.00	.00	.25	.00	.00	.00	.00	.00	1.93	20.49
EUCHEATA NORVEGICA	.00	.00	.25	.00	.00	.00	.00	.00	.00	1.24
EUCHEATA SP.	.12	.34	.00	.00	.00	.00	.00	.00	.00	2.29
GAIDIUS TENUISPINUS	.00	.00	.25	.00	.00	.00	.00	.00	.00	1.24
MECYNOCERA CLAUSI	.00	.00	.00	.19	.00	.00	.00	.00	.00	.95
METRIDIA LUCENS	.70	.34	1.73	.57	.15	.18	.38	1.77	1.93	48.33
OITHONA ATLANTICA	.35	.68	.74	.57	.00	1.42	.00	1.32	.00	25.44
OITHONA SIMILIS	.23	4.62	29.74	3.03	.90	.18	9.09	19.87	123.23	1570.53
ONCAEA SP.	.12	.17	.00	.00	.00	.00	.00	.00	.00	1.44
PARACALANUS PARVUS	.00	.51	.00	.38	.45	.35	.00	.00	1.93	27.74
PLEUROMAMMA ABDOMINALIS	.00	.00	.00	.00	.00	.00	.38	.00	.00	1.89
PLEUROMAMMA BOREALIS	.23	1.37	.00	.00	.00	.00	.00	.44	.00	10.21
PLEUROMAMMA ROBUSTA	.23	.17	.00	.00	.15	.18	.00	.44	.00	5.86
PLEUROMAMMA SP	.00	.34	.00	.00	.00	.00	.00	.00	.00	1.71
PLEUROMAMMA XIPHIAS	.00	.00	.00	.00	.00	.00	.38	.44	.00	4.10
PSEUDOCALANUS MINUTUS	17.44	20.68	39.41	17.99	16.99	17.73	21.97	18.54	44.28	1296.63
SCOLECITHRICELLA MINOR	.12	.51	.00	.00	.00	.18	.38	.00	.00	5.93
TEMORA LONGICORNIS	.00	.00	.00	.00	.00	.18	.38	.44	1.93	24.24
UNID/DAM/EXO COPEPOD	6.16	17.78	8.18	8.71	6.02	12.06	10.98	24.28	52.95	1000.33
UNIDENTIFIED HARPACTICOID	.23	.00	.00	.19	.00	.18	.00	.00	.00	3.00
COPEPOD NAUPLII	.00	.17	.00	.00	.00	.00	.00	.00	.96	10.48
PARATHEMISTO SP.	.35	.17	.00	.19	.15	.53	.00	.44	.00	9.16
CIRREPEDIA NAUPLIUS	.00	.00	.00	.00	.00	.00	.00	.00	.96	9.63
CUMACEAN	.12	.00	.00	.00	.00	.00	.00	.00	.00	.58
M. NORVEGICA CALYPTOSIS	.12	.00	.00	.00	.00	.00	.00	.00	.00	.58
M. NORVEGICA FURCILIA	.00	.00	.00	.00	.00	.18	.00	.00	.00	.89
UNIDENTIFIED CALYPTOSIS	.00	.00	.00	.00	.00	.00	.00	.44	.96	11.83
T. LONGICAUDATA FURCILIAE	.00	.00	.00	.00	.00	.18	.00	.00	.00	.89
THYSANOESSA SP. FURCILIAE	.00	.00	.00	.00	.00	.00	.00	.00	.96	9.63
THYSANOESSA SP. CALYPTOSIS	.12	1.20	.50	.00	.15	.00	.00	.00	.00	9.79
EUPHAUSIID EGGS	3.26	4.44	3.97	9.09	2.56	1.42	5.30	4.86	4.81	222.59
EUPHAUSIID NAUPLII	.00	1.54	6.44	1.52	1.50	.35	2.27	3.09	11.55	199.12
DAMAGED FURCILIAE	.00	.00	.00	.19	.15	.00	.00	.00	.00	1.70
DAMAGED CHAETOGNATH	.00	.00	.00	.19	.00	.00	.00	.00	.00	.95
OIKOPLEURA SP.	.00	.00	.74	.00	.00	.00	.00	.00	.00	3.72
DAMAGED APPENDICULARIA	.00	.00	.00	.00	.15	.00	.00	.00	.00	.75

TOW 19 23/09/85 2245H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER									#/M2
LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON										
AMPHIPODA	.093	.000	.000	.057	.105	.160	.057	.000	.000	2.357
PARATHEMISTO GAUDICHAUDII	.093	.000	.000	.057	.105	.160	.057	.000	.000	2.357
MYSIDACEA	.000	.051	.037	.000	.053	.053	.114	.265	.108	3.947
BOREOMYSIS SP.	.000	.051	.037	.000	.053	.053	.114	.265	.108	3.947
EUPHAUSIACEA	.047	.410	.037	.341	.263	.213	.284	.199	.036	9.329
EUPHAUSIA KROHNII	.000	.154	.000	.057	.000	.053	.000	.000	.000	1.319
MEGANYCTIPHANES NORVEGICA	.000	.000	.000	.057	.105	.106	.114	.132	.036	2.934
NEMATOSCELIS MEGALOPS	.047	.256	.000	.057	.000	.053	.000	.000	.000	2.065
THYSANOESSA INERMIS	.000	.000	.037	.057	.158	.000	.057	.000	.000	1.544
THYSANOESSA LONGICAUDATA	.000	.000	.000	.000	.000	.000	.114	.066	.000	.899
DAMAGED/UNIDENTIFIED EUPHAUS	.000	.000	.000	.114	.000	.000	.000	.000	.000	.568
CHAETOGNATHA	.209	.513	.483	.341	.000	.000	.057	.066	.000	8.347
EUKHRONIA HAMATA	.023	.000	.037	.000	.000	.000	.000	.000	.000	.302
SAGITTA ELEGANS	.116	.359	.372	.341	.000	.000	.000	.066	.000	6.271
UNIDENTIFIED CHAETOGNATH	.070	.154	.074	.000	.000	.000	.057	.000	.000	1.774

TOW 18 23/09/85 1945H	43 56.86 N 58 36.69									
SAMPLE	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	450.0	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	
DEPTH2 (M)	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	.0	
VOLUME OF WATER SAMPLED (M3)	168.	177.	185.	198.	196.	217.	209.	178.	139.	
TOTAL BIOMASS (G/M3)	.060	.050	.027	.013	.032	.023	.029	.035	.062	16.597
EUPHAUSIACEA BIOMASS (G/M3)	.001	.016	.002	.003	.005	.010	.012	.020	.026	

SPECIES	NUMBER PER CUBIC METER									#/M2
SIPHONOPHORA	.00	.00	.00	.00	.00	.00	.01	.00	.00	.48
LIMACINA INFLATA	.00	.00	.00	.02	.00	.00	.00	.00	.38	20.24
LIMACINA LESUEURII	.00	.00	.00	.00	.00	.00	.02	.00	.00	.96
LIMACINA RETROVERSA	.00	.00	.00	.00	.00	.00	.00	.04	.00	1.97
LIMACINA TROCHIFORMIS	.00	.00	.05	.00	.00	.00	.00	.00	.38	21.59
GYMNOSOMATA	.00	.00	.00	.02	.00	.00	.00	.04	.38	22.20
CONCHOECIA AMETRA	.00	.03	.00	.00	.00	.00	.00	.00	.00	1.26
CONCHOECIA BISPINOSA	.05	.00	.00	.00	.00	.00	.00	.00	.00	2.38
CONCHOECIA CURTA	.00	.00	.14	.02	.10	.59	.10	.04	.38	68.80
CONCHOECIA ELEGANS	.00	.00	.00	.02	.00	.00	.00	.00	.00	1.05
CONCHOECIA SP.	.00	.00	.05	.00	.00	.00	.00	.00	.00	2.40
ACARTIA CLAUSI	.00	.00	.00	.00	.00	.00	.00	.00	1.53	76.74
ACARTIA DANAE	.00	.00	.00	.00	.00	.00	.03	.00	1.92	97.36
ACARTIA LONGIREMIS	.00	.00	.00	.00	.00	.00	.00	.00	.38	19.18
ACARTIA SP.	.00	.00	.00	.00	.00	.00	.00	.00	.38	19.18
AETIDEUS ARMATUS	.00	.20	.00	.00	.07	.00	.00	.00	.00	13.45
CALANUS FINMARCHICUS-TOTAL	4.24	.40	3.32	.11	.07	.07	.09	.16	.38	441.47
CALANUS FINMARCHICUS (D)	.00	.00	.10	.04	.00	.00	.01	.00	.00	7.39
CALANUS FINMARCHICUS (G)	.00	.00	.00	.00	.03	.07	.03	.00	.38	26.01
CALANUS FINMARCHICUS (S)	.05	.03	.14	.00	.00	.00	.02	.04	.00	13.77
CALANUS FINMARCHICUS VIM	.00	.03	.00	.00	.00	.00	.02	.00	.00	2.21
CALANUS FINMARCHICUS VIF	.05	.03	.24	.04	.03	.07	.06	.04	.38	47.17
CALANUS FINMARCHICUS V	3.52	.18	3.08	.04	.03	.00	.01	.00	.00	346.95
CALANUS FINMARCHICUS IV	.67	.18	.00	.02	.00	.00	.00	.04	.00	45.14
CALANUS GLACIALIS V	.00	.00	.43	.00	.00	.00	.00	.00	.00	21.62
CALANUS GLACIALIS IV	.19	.00	.00	.00	.00	.00	.00	.00	.00	9.52
CALANUS HYPERBOREUS-TOTAL	.10	.00	.24	.00	.00	.00	.00	.00	.00	16.77
CALANUS HYPERBOREUS (S)	.05	.00	.00	.00	.00	.00	.00	.00	.00	2.38
CALANUS HYPERBOREUS VIF	.05	.00	.00	.00	.00	.00	.00	.00	.00	2.38
CALANUS HYPERBOREUS V	.00	.00	.19	.00	.00	.00	.00	.00	.00	9.61
CALANUS HYPERBOREUS IV	.05	.00	.05	.00	.00	.00	.00	.00	.00	4.78
CALANUS SP.	.62	1.31	3.03	.13	.00	.00	.00	.00	.00	253.91
CALANUS MINOR	.00	.03	.00	.02	.00	.00	.01	.00	2.69	137.08
CALOCALANUS PAVO	.00	.00	.00	.00	.00	.00	.01	.00	.00	.48
CALOCALANUS PLUMULOSUS	.00	.00	.00	.00	.00	.00	.01	.00	.00	.48
CHIRIDIUS GRACILIS	.00	.03	.00	.00	.00	.00	.00	.31	.00	16.98
CLAUSOCALANUS ARCUICORNIS	.10	.10	.14	.04	.20	.22	.08	1.30	21.10	1164.21
CLAUSOCALANUS FURCATUS	.29	.88	1.92	.78	1.67	2.36	.43	.00	49.11	2871.80
EUCHEATA NORVEGICA	.14	.20	.24	.21	.37	.18	.03	.00	.00	69.09
EUCHEATA SP.	.38	.35	.05	.48	.65	.15	.00	.00	.00	102.92
EUCHIRELLA SP.	.00	.00	.00	.00	.00	.04	.01	.00	.00	2.32
GAIDIUS SP	.00	.00	.10	.00	.00	.00	.00	.00	.00	4.80
GAIDIUS TENUISPINUS	.10	.00	.00	.00	.03	.07	.00	.00	.00	10.15
MECYNOCERA CLAUSI	.00	.00	.05	.00	.07	.04	.01	.08	1.53	88.80
METRIDIA LONGA	.38	.13	.10	.11	.14	.00	.00	.00	.00	42.20
METRIDIA LUCENS	2.90	1.36	.67	.40	.51	.59	.54	1.89	.77	481.24
OITHONA ATLANTICA	.33	.05	.19	.15	.17	.41	.44	.59	.00	116.48
OITHONA SIMILIS	.05	.03	.19	.04	.00	.00	.00	.04	.38	36.50
OITHONA SP.	.00	.03	.00	.02	.00	.00	.00	.00	.00	2.31
ONCAEA SP.	.00	.00	.05	.00	.07	.00	.00	.00	.00	5.00
PARACALANUS PARVUS	.00	.00	.43	.06	.27	.48	.10	.20	4.60	307.19
PLEUROMAMMA ABDOMINALIS	.00	.00	.05	.00	.03	.07	.03	.08	.00	13.16
PLEUROMAMMA BOREALIS	.00	.15	.48	1.73	1.26	1.33	.69	2.87	4.99	674.57
PLEUROMAMMA GRACILIS	.00	.00	.00	.00	.00	.00	.01	.04	.00	2.45
PLEUROMAMMA ROBUSTA	.19	.18	.14	.29	.71	.44	.18	.20	.00	117.03
PLEUROMAMMA SP.	.05	.03	.10	.11	.24	.37	.22	.43	.77	115.06
PLEUROMAMMA XIPHIAS	.00	.00	.00	.02	.00	.00	.03	.00	.38	21.68
RHINCALANUS CORNUTUS	.05	.00	.05	.00	.00	.00	.00	.00	.00	4.78
RHINCALANUS NASUTUS	.00	.00	.00	.00	.03	.00	.00	.00	.00	1.70
SCOLECITHRICELLA MINOR	.48	.35	.19	.55	1.09	2.40	.30	.20	.00	277.30
SCOLECITHRICELLA ABYSSALLIS	.00	.00	.00	.00	.03	.00	.01	.00	.00	2.18
SCOTTOCALANUS PERSECANS	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.44
SPINOCALANUS ABYSSALLIS	.57	.43	.00	.00	.00	.00	.00	.00	.00	49.91
SPINOCALANUS SP.	.00	.00	.00	.02	.00	.00	.00	.00	.00	1.05
UNDEUCHEATA MAJOR	.00	.00	.00	.08	.10	.04	.00	.00	.00	11.16
UNDEUCHEATA PLUMOSA	.00	.00	.00	.00	.00	.04	.00	.00	.38	21.03
UNDEUCHAETA SP.	.00	.00	.00	.00	.00	.07	.07	.16	.77	53.27

TOW 18 23/09/85 1945H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER									#/M2
UNID/DAM/EXO COPEPOD	3.10	2.61	5.24	1.83	2.11	3.94	1.51	2.04	10.74	1656.12
UNIDENTIFIED HARPACTICOID	.00	.00	.00	.04	.00	.00	.00	.00	.00	2.11
PARATHEMISTO SP.	1.19	.25	.00	.02	.61	.15	.01	.04	1.15	171.12
MYSID	.00	.00	.00	.02	.00	.00	.00	.00	.00	1.05
THYSANOESSA INERMIS FURCILIAE	.00	.00	.00	.00	.00	.00	.02	.00	.00	.96
UNIDENTIFIED CALYPTOSIS	.00	.00	.00	.00	.00	.00	.01	.00	.00	.48
T. LONGICAUDATA FURCILIAE	.00	.00	.00	.00	.03	.00	.00	.00	.77	40.07
THYSANOESSA SP. FURCILIAE	.00	.00	.00	.00	.00	.00	.01	.00	.38	19.66
THYSANOESSA SP. CALYPTOSIS	.00	.00	.00	.00	.00	.00	.00	.04	.00	1.97
EUPHAUSIID EGGS	.00	.00	.00	.00	.03	.04	.00	.00	.00	3.54
DAMAGED FURCILIAE	.00	.00	.00	.00	.00	.00	.01	.00	.77	38.85
SAGITTA ELEGANS	.00	.00	.00	.00	.00	.00	.00	.00	.77	38.37
EUKRONIA HAMATUS	.00	.03	.00	.00	.00	.00	.00	.00	.00	1.26
DAMAGED CHAETOGNATH	.00	.00	.05	.00	.03	.00	.01	.00	.38	23.77

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

AMPHIPODA	.411	.085	.049	.047	.031	.018	.038	.012	.007	34.894
PARATHEMISTO GAUDICHAUDII	.411	.085	.049	.047	.031	.018	.038	.012	.000	34.534
UNIDENTIFIED AMPHIPOD	.000	.000	.000	.000	.000	.000	.000	.000	.007	.360
EUPHAUSIACEA	.048	.463	.086	.068	.122	.355	.384	.613	1.050	159.518
EUPHAUSIA KROHNII	.018	.119	.032	.016	.010	.005	.000	.147	.647	49.721
MEGANYCTIPHANES NORVEGICA	.000	.006	.000	.005	.005	.000	.014	.035	.029	4.728
NEMATOSCELIS MEGALOPS	.006	.328	.038	.037	.097	.276	.249	.224	.281	76.789
THYSANOESSA LONGICAUDATA	.000	.011	.011	.000	.010	.060	.120	.183	.079	23.702
DAMAGED/UNIDENTIFIED EUPHAUS	.024	.000	.005	.011	.000	.014	.000	.018	.014	4.282
THYSANOESSA SP.	.000	.000	.000	.000	.000	.000	.000	.006	.000	.295
DECAPODA	.030	.028	.005	.000	.015	.005	.014	.035	.029	8.094
ACANTHYPHYRA SP.	.006	.006	.000	.000	.005	.000	.000	.000	.000	.835
SERGESTES SP.	.018	.023	.005	.000	.010	.005	.014	.035	.022	6.601
UNIDENTIFIED DECAPOD	.006	.000	.000	.000	.000	.000	.000	.000	.007	.657
CHAETOGNATHA	.018	.045	.049	.021	.010	.005	.000	.000	1.367	75.724
EUKHRONIA HAMATA	.000	.028	.043	.021	.005	.000	.000	.000	.000	4.882
SAGITTA ELEGANS	.000	.000	.000	.000	.000	.000	.000	.000	1.367	68.345
SAGITTA MAXIMA	.000	.017	.005	.000	.005	.005	.000	.000	.000	1.603
SAGITTA ZETOSIS	.018	.000	.000	.000	.000	.000	.000	.000	.000	.893
SALPA MAXIMA	.000	.000	.000	.000	.000	.000	.000	.000	.094	4.676
PICES	.006	.006	.032	.005	.000	.023	.010	.006	.029	5.830
BENTHOSEMA GLACIALE	.000	.006	.000	.000	.000	.009	.005	.006	.029	2.717
CYCLOTHONE SP.	.000	.000	.022	.000	.000	.000	.000	.000	.000	1.081
LAMPANYCTUS SP.	.000	.000	.005	.000	.000	.000	.005	.000	.000	.518
IMMATURE MYCTOPHID	.000	.000	.005	.005	.000	.000	.000	.000	.000	.533
STEMONOSUDIS SP.	.000	.000	.000	.000	.000	.000	.005	.000	.000	.000	.230
VINCINGUERRIA SP.	.000	.000	.000	.000	.000	.005	.000	.000	.000	.230
UNIDENTIFIED FISH LARVE	.006	.000	.000	.000	.000	.000	.000	.000	.000	.298
UNIDENTIFIED MYCTOPHID	.000	.000	.000	.000	.000	.005	.000	.000	.000	.230

TOW 17 23/09/85 1430H	43 41.32 N 58 22.94									
SAMPLE	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	800.0	700.0	600.0	500.0	450.0	400.0	350.0	300.0	250.0	
DEPTH2 (M)	700.0	600.0	500.0	450.0	400.0	350.0	300.0	250.0	200.0	
VOLUME OF WATER SAMPLED (M3)	326.	414.	459.	268.	285.	543.	311.	196.	156.	
TOTAL BIOMASS (G/M3)	.183	.182	.045	.027	.024	.041	.025	.069	.010	50.810
EUPHAUSIACEA BIOMASS (G/M3)	.000	.000	.011	.004	.010	.021	.015	.054	.002	

SPECIES	NUMBER PER CUBIC METER									#/M2
SIPHONOPHORA	.03	.00	.00	.00	.00	.00	.03	.00	.00	4.01
LIMACINA HELICOIDES	.03	.00	.00	.00	.07	.00	.00	.00	.00	6.24
LIMACINA INFLATA	.00	.04	.00	.00	.00	.00	.00	.07	.00	7.27
LIMACINA LESUEURII	.00	.00	.00	.00	.00	.00	.03	.20	.00	11.49
LIMACINA SP.	.00	.04	.00	.00	.00	.00	.00	.00	.00	3.86
CONCHOECIA AMETRA	.03	.00	.04	.00	.00	.00	.00	.00	.00	7.08
CONCHOECIA BISPINOSA	.00	.04	.00	.00	.00	.00	.00	.00	.00	3.86
CONCHOECIA CURTA	.05	.00	.00	.00	.00	.00	.03	.14	.34	30.64
CONCHOECIA OBTUSATA	.27	.58	.00	.00	.00	.00	.00	.00	.00	85.24
CONCHOECIA SPINIFERA	.00	.00	.00	.06	.00	.10	.00	.00	.00	7.90
CONCHOECIA SPINIROSTRIS	.19	.70	.00	.00	.00	.29	.00	.00	.00	107.25
CONCHOECIA SP.	.11	.27	.17	.06	.07	.20	.03	.00	.00	72.99
ACARTIA DANAE	.00	.00	.00	.00	.00	.00	.03	.00	.09	5.56
ACARTIA SP.	.00	.00	.00	.00	.00	.10	.00	.00	.00	4.91
AETIDEUS ARMATUS	.00	.00	.00	.00	.04	1.47	.00	.00	.00	79.28
AMALLOTHRIX ERMARGINATA	.00	.04	.00	.00	.00	.00	.00	.00	.00	3.86
CALANUS FINMARCHICUS-TOTAL	1.42	2.55	7.89	9.25	3.09	1.18	.36	.48	1.20	1963.20
CALANUS FINMARCHICUS (D)	.11	.12	.09	.06	.04	.00	.00	.00	.00	35.95
CALANUS FINMARCHICUS (G)	.00	.00	.00	.00	.00	.10	.00	.00	.00	4.91
CALANUS FINMARCHICUS (S)	.05	.19	.39	.06	.11	.20	.03	.07	.09	91.03
CALANUS FINMARCHICUS VIM	.00	.00	.04	.00	.00	.10	.00	.00	.00	9.27
CALANUS FINMARCHICUS VIF	.16	.31	.48	.12	.14	.29	.03	.07	.09	131.89
CALANUS FINMARCHICUS V	1.25	2.13	7.19	8.90	2.74	.59	.31	.34	1.11	1756.04
CALANUS FINMARCHICUS IV	.00	.12	.13	.24	.21	.20	.03	.00	.00	58.24
CALANUS FINMARCHICUS II	.00	.00	.04	.00	.00	.00	.00	.07	.00	7.76
CALANUS GLACIALIS V	.76	1.58	.39	.48	.11	.00	.05	.07	.00	389.14
CALANUS GLACIALIS IV	.00	.00	.00	.00	.04	.10	.00	.00	.09	10.94
CALANUS GRACILIS	.00	.00	.00	.00	.00	.00	.00	.00	.09	4.27
CALANUS HYPERBOREUS-TOTAL	.52	1.00	.22	.00	.07	.00	.00	.00	.09	181.86
CALANUS HYPERBOREUS (D)	.03	.19	.00	.00	.00	.00	.00	.00	.00	22.05
CALANUS HYPERBOREUS (S)	.08	.12	.00	.00	.00	.00	.00	.00	.09	24.05
CALANUS HYPERBOREUS VIF	.11	.31	.00	.00	.00	.00	.00	.00	.09	46.10
CALANUS HYPERBOREUS V	.22	.46	.09	.00	.04	.00	.00	.07	.00	82.06
CALANUS HYPERBOREUS IV	.19	.19	.13	.00	.04	.00	.00	.00	.00	53.24
CALANUS SP.	.05	.19	1.35	2.03	1.19	.00	.28	.48	.17	367.52
CALOCALANUS PAVO	.00	.00	.00	.00	.04	.00	.03	.00	.00	3.84
CALOCALANUS PLUMULOSUS	.00	.00	.00	.06	.04	.00	.00	.00	.00	4.74
CENTROPAGES BRADYI	.00	.00	.09	.00	.00	.00	.03	.00	.00	10.00
CHIRIDIUS GRACILIS	.00	.00	.00	.06	.00	.29	.00	.07	.00	21.12
CHIRUNDINA STREETSII	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.29
CLAUSOCALANUS ARCUICORNIS	.16	.00	.31	.18	.25	1.08	.28	.20	.00	146.49
CLAUSOCALANUS FURCATUS	.00	.12	.13	.18	.49	.88	.31	.48	7.61	521.99
EUAUGAPTILUS SP.	.00	.00	.04	.00	.00	.00	.00	.00	.00	4.36
EUCALANUS ATTENUATUS	.00	.00	.00	.06	.00	.00	.00	.00	.00	2.99
EUCHAETA ACUTA	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.29
EUCHEATA NORVEGICA	.93	1.12	.52	.06	.04	.00	.13	.00	.00	268.25
EUCHAETA TONSA	.00	.00	.00	.00	.07	.10	.00	.00	.00	8.42
EUCHEATA SP.	.03	.00	.00	.06	.14	1.77	.05	.48	.43	148.88
EUCHIRELLA MESSINENSIS	.00	.04	.00	.00	.00	.00	.00	.00	.00	3.86
EUCHIRELLA SP.	.00	.00	.00	.00	.00	.10	.00	.00	.00	4.91
GAETANUS KRUPPII	.00	.00	.00	.06	.00	.00	.00	.00	.00	2.99
GAETANUS MINOR	.00	.00	.00	.00	.04	.29	.08	.00	.00	20.35
GAETANUS SP.	.00	.04	.00	.00	.00	.00	.00	.00	.00	3.86
GAIDIUS SP	.00	.00	.00	.00	.00	.39	.05	.00	.00	22.22
GAIDIUS TENUISPINUS	.19	.04	.13	.12	.25	.00	.00	.00	.00	54.27
HALITHALESTRIS OVONI	.00	.00	.00	.00	.04	.00	.00	.00	.00	1.75
LUBBOCKIA SQUILLIMANA	.00	.00	.00	.06	.00	.00	.00	.00	.00	2.99
MECYNOCERA CLAUSI	.05	.00	.00	.00	.04	.00	.00	.07	.17	19.16
METRIDIA BREVICAUDA	.00	.04	.00	.00	.00	.00	.00	.00	.00	12.04
METRIDIA LONGA	.03	.04	.04	.24	.35	.00	.03	.07	.09	45.99
METRIDIA LUCENS	.76	.58	.22	.36	.88	5.11	.67	1.09	1.03	612.43
MICROCALANUS PYGMAEUS	.00	.00	.00	.12	.00	.00	.00	.00	.00	5.97
OITHONA ATLANTICA	.00	.04	.09	.42	.04	.10	.03	.00	.26	54.25
OITHONA SIMILIS	.00	.00	.09	.30	.00	.00	.00	.00	.00	23.64
OITHONA SP.	.00	.58	.00	.00	.04	.00	.00	.07	.00	63.13
ONCAEA BOREALIS	.00	.00	.00	.00	.00	.10	.00	.00	.09	9.18
ONCAEA CONIFERA	.03	.12	.04	.06	.00	.00	.00	.07	.00	25.06

TOW 17 23/09/85 1430H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER									#/M2
ONCAEA SP.	.30	.00	.13	.00	.00	.20	.00	.00	.00	52.89
PARACALANUS PARVUS	.00	.00	.13	.00	.00	.00	.03	.00	.09	18.63
PLEUROMAMMA ABDOMINALIS	.00	.00	.00	.00	.07	.59	.08	.00	.00	36.84
PLEUROMAMMA BOREALIS	.00	.08	.09	.24	.25	.49	2.22	9.73	5.13	918.78
PLEUROMAMMA GRACILIS	.00	.00	.00	.00	.00	.00	.13	.00	.00	6.44
PLEUROMAMMA ROBUSTA	.00	.04	.09	.54	2.14	2.55	.03	.07	.09	283.11
PLEUROMAMMA SP.	.00	.00	.09	.00	.00	.00	.57	.27	1.03	101.93
PLEUROMAMMA XIPHIAS	.00	.00	.00	.00	.18	.20	.00	.00	.00	18.59
PSEUDOCALANUS MINUTUS	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.29
RHINCALANUS CORNUTUS	.03	.00	.09	.12	.00	.00	.05	.07	.09	27.66
RHINCALANUS NASUTUS	.08	.04	.00	.00	.00	.00	.00	.00	.00	12.04
SCAPHOCALANUS MEDIUS	.00	.00	.00	.24	.00	.00	.00	.00	.00	11.94
SCOLECITHRICELLA MINOR	.03	.08	.04	.18	.35	3.63	.85	.20	.26	288.54
SPINOCALANUS ABYSSALLIS	.38	.73	.13	.96	.00	.98	.00	.00	.17	230.09
SPINOCALANUS SP.	.05	.04	.00	.00	.00	.10	.03	.00	.00	15.52
UNDEUCHEATA MAJOR	.00	.00	.00	.00	.11	.00	.00	.00	.00	5.26
UNDEUCHEATA PLUMOSA	.00	.04	.00	.00	.00	.00	.00	.00	.00	3.86
UNDEUCHAETA SP.	.00	.00	.04	.00	.00	.00	.00	.00	.00	4.36
UNID/DAM/EXO COPEPOD	3.24	3.67	3.62	2.45	4.60	4.71	4.53	7.07	7.86	2614.78
UNIDENTIFIED HARPACTICOID	.00	.00	.00	.00	.00	.00	.05	.00	.00	2.58
COPEPOD NAUPLII	.00	.00	.04	.00	.00	.00	.00	.00	.00	4.36
AMPHIPODA EGGS	.00	.00	.00	.06	.04	.00	.00	.00	.00	4.74
PARATHEMISTO ABYSSORUM	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.29
UNIDENTIFIED GAMMARID	.03	.00	.00	.00	.04	.00	.00	.00	.00	4.48
MYSID	.00	.00	.00	.00	.00	.00	.05	.00	.00	2.58
M. NORVEGICA FURCILIA	.00	.00	.00	.00	.00	.00	.05	.00	.00	2.58
UNIDENTIFIED EUPHAUSID	.00	.00	.00	.00	.00	.10	.00	.00	.00	4.91
DAMAGED FURCILIAE	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.29
ECHINODERMATA-LARVAE	.00	.00	.00	.48	.00	.00	.00	.00	.00	23.88
SAGITTA MAXIMA	.05	.00	.00	.00	.00	.00	.00	.07	.00	8.85
EUKRONIA HAMATUS	.00	.00	.00	.00	.00	.00	.03	.00	.09	5.56
DAMAGED CHAETOGNATH	.05	.00	.00	.06	.00	.00	.03	.00	.00	9.73
FISH EGGS	.00	.04	.00	.00	.00	.00	.00	.00	.09	8.14

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

DIPHIDAE	.000	.000	.000	.000	.000	.009	.000	.000	.000	.460
UNIDENTIFIED SIPHONOPHORE	.003	.000	.000	.000	.000	.000	.000	.000	.000	.307
PERIPHYLLA	.006	.000	.000	.000	.000	.000	.000	.000	.000	.613
UNIDENTIFIED MEDUSA	.006	.005	.002	.000	.000	.000	.000	.000	.000	1.314
AMPHIPODA	.003	.005	.026	.000	.000	.000	.000	.015	.000	4.170
PARATHEMISTO GAUDICHAUDII	.000	.002	.026	.000	.000	.000	.000	.015	.000	3.621
UNIDENTIFIED AMPHIPOD	.003	.002	.000	.000	.000	.000	.000	.000	.000	.548
MYSIDACEA	.021	.024	.007	.000	.000	.000	.000	.000	.000	5.216
BOREOMYSIS SP.	.015	.024	.007	.000	.000	.000	.000	.000	.000	4.603
EUCOPIA SP.	.006	.000	.000	.000	.000	.000	.000	.000	.000	.613
EUPHAUSIACEA	.037	.017	.092	.123	.221	.808	.766	2.617	.077	245.181
EUPHAUSIA KROHNII	.037	.010	.022	.075	.151	.744	.686	2.617	.071	223.983
MEGANYCTIPHANES NORVEGICA	.000	.000	.039	.011	.032	.000	.074	.000	.000	9.763
NEMATOSCELIS MEGALOPS	.000	.000	.022	.030	.028	.059	.000	.000	.000	8.021
STYLOCHEIRON SP.	.000	.000	.000	.000	.000	.000	.000	.000	.006	.321

TOW 17 23/09/85 1430H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER									#/M2
THYSANOESSA LONGICAUDATA	.000	.005	.000	.007	.004	.006	.000	.000	.000	1.308
THYSANOPODA SP.	.000	.002	.009	.000	.000	.000	.000	.000	.000	1.113
DAMAGED/UNIDENTIFIED EUPHAUS	.000	.000	.000	.000	.007	.000	.006	.000	.000	.673
DECAPODA	.006	.019	.022	.000	.000	.000	.000	.000	.000	4.725
GENNADAS SP.	.006	.017	.000	.000	.000	.000	.000	.000	.000	2.304
SERGESTES SP.	.000	.002	.022	.000	.000	.000	.000	.000	.000	2.420
CHAETOGNATHA	.061	.041	.035	.045	.018	.029	.032	.051	.026	23.759
EUKHRONIA FOWLERI	.003	.000	.000	.000	.000	.000	.000	.000	.000	.307
EUKHRONIA HAMATA	.031	.034	.022	.034	.011	.028	.029	.026	.019	15.900
SAGITTA MACROCEPHALA	.003	.002	.000	.000	.000	.000	.000	.000	.000	.548
SAGITTA MAXIMA	.003	.005	.007	.004	.007	.000	.000	.026	.000	3.256
SAGITTA ZETOSIS	.006	.000	.000	.007	.000	.002	.003	.000	.000	1.240
UNIDENTIFIED CHAETOGNATH	.015	.000	.007	.000	.000	.000	.000	.000	.006	2.508
PICES	.015	.031	.015	.011	.018	.050	.003	.005	.006	10.859
BENTHOSEMA GLACIALE	.000	.010	.015	.000	.011	.048	.003	.000	.000	5.573
CHAULIODIUS SP.	.000	.002	.000	.000	.000	.000	.000	.000	.000	.242
CYCLOTHONE SP.	.012	.019	.000	.011	.007	.000	.000	.005	.006	4.646
MALACOSTEUS SP.	.003	.000	.000	.000	.000	.000	.000	.000	.000	.307
IMMATURE MYCTOPHID	.000	.000	.000	.000	.000	.002	.000	.000	.000	.092

TOW 16 23/09/85 1330H	43 40.05 N	58 24.66								
SAMPLE	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	200.0	150.0	100.0	75.0	50.0	40.0	30.0	20.0	10.0	
DEPTH2 (M)	150.0	100.0	75.0	50.0	40.0	30.0	20.0	10.0	.0	
VOLUME OF WATER SAMPLED (M3)	228.	233.	114.	100.	28.	33.	27.	43.	28.	
TOTAL BIOMASS (G/M3)	.003	.003	.006	.008	.005	.009	.018	.020	.056	1.695
EUPHAUSIACEA BIOMASS (G/M3)	.000	.000	.000	.000	.000	.000	.000	.000	.000	

SPECIES	NUMBER PER CUBIC METER									#/M2
LIMACINA HELICOIDES	.04	.02	.12	.02	.11	.06	.37	.31	.00	15.14
LIMACINA INFLATA	.10	.06	.06	.05	.04	.52	.00	1.24	4.76	76.78
LIMACINA LESUEURII	.00	.04	.06	.18	.14	.18	.00	.31	.00	14.49
LIMACINA TROCHIFORMIS	.04	.04	.00	.16	.00	.06	.00	.31	.00	12.14
UNIDENTIFIED THECOSOMATA	.00	.00	.00	.02	.00	.00	.00	.00	.00	.45
GYMNOSOMATA	.00	.00	.00	.09	.00	.00	.00	.93	.00	11.59
BIVALVE LARVAE	.00	.00	.00	.02	.00	.00	.00	.00	.00	.45
PODON LEUCKARTI	.00	.00	.12	.00	.00	.03	.00	.00	.00	3.23
CONCHOECIA BISPINOSA	.01	.00	.00	.00	.00	.00	.00	.00	.00	.73
CONCHOECIA CURTA	.73	1.70	1.29	.05	.04	.06	.25	.00	.00	158.34
CONCHOECIA SP.	.12	.00	.00	.00	.00	.06	.00	.00	.95	16.00
ACARTIA CLAUSI	.00	.00	.00	.00	.04	.12	.00	4.66	9.52	143.44
ACARTIA DANAE	.00	.00	.00	.00	.00	.00	8.55	.93	.00	94.83
ACARTIA LONGIREMIS	.03	.04	.23	.02	.00	.09	.00	.31	.95	23.46
ACARTIA SP.	.00	.00	.06	.00	.00	.00	.00	.00	.00	1.46
CALANUS FINMARCHICUS-TOTAL	.06	.06	.06	.02	.00	.31	.00	7.15	.00	82.61
CALANUS FINMARCHICUS (G)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.45
CALANUS FINMARCHICUS (S)	.01	.00	.00	.00	.00	.03	.00	.00	.00	1.04
CALANUS FINMARCHICUS VIF	.01	.00	.00	.02	.00	.03	.00	.00	.00	1.49
CALANUS FINMARCHICUS V	.01	.06	.00	.00	.00	.09	.00	.00	.00	4.87
CALANUS FINMARCHICUS IV	.01	.00	.00	.00	.00	.03	.00	.00	.00	1.04
CALANUS FINMARCHICUS III	.00	.00	.00	.00	.00	.03	.00	2.18	.95	31.59
CALANUS FINMARCHICUS II	.00	.00	.06	.00	.00	.03	.00	2.49	.00	26.63
CALANUS FINMARCHICUS I	.01	.00	.00	.00	.00	.09	.00	2.49	.00	26.52
CALANUS GLACIALIS V	.00	.02	.00	.00	.00	.00	.00	.00	.00	1.87
CALANUS SP.	.10	.36	.00	.43	.07	5.31	.00	.93	.00	97.33
CALANUS MINOR	.00	.00	.12	.00	.04	.09	.37	.93	.00	17.24
CALOCALANUS PAVO	.00	.02	.00	.00	.18	.15	.12	1.24	.95	27.56
CALOCALANUS PLUMULOSUS	.01	.00	.00	.02	.00	.09	.00	.62	.00	8.32
CALOCALANUS STYLIREMIS	.00	.00	.06	.00	.00	.03	.00	.00	.00	1.77
CANDACIA SP.	.01	.00	.00	.00	.00	.00	.00	.00	.00	.73
CENTROPAGES BRADYI	.00	.00	.12	.00	.11	.06	.25	8.39	6.67	157.65
CLAUSOCALANUS ARCUICORNIS	.04	.11	.70	.36	1.02	1.20	2.23	16.47	143.81	1681.46
CLAUSOCALANUS FURCATUS	.89	.62	.94	.20	.28	1.69	5.33	13.99	46.67	783.66
CLYTEMNESTRA SCUTELLATA	.00	.00	.00	.00	.00	.03	.12	.00	.00	1.55
EUAETIDEUS GIESBRECHTI	.01	.04	.00	.00	.00	.00	.00	.00	.00	2.88
EUCHEATA SP.	.01	.00	.00	.00	.00	.00	.00	.00	.00	.73
HETERORHABDUS PAPILLIGER	.00	.13	.00	.00	.00	.00	.00	.00	.00	6.44
MACROSTELLA GRACILIS	.00	.00	.06	.00	.11	.00	.12	.62	1.90	29.02
MECYNOCERA CLAUSI	.00	.00	.12	.02	.14	.09	3.84	21.13	.00	255.46
METRIDIA LUCENS	.03	.00	.06	.00	.00	.00	.00	.00	.00	2.93
OITHONA ATLANTICA	.22	1.33	17.54	2.52	.28	.21	.12	.00	.95	594.76
OITHONA SIMILIS	.00	.00	.00	.00	.04	.03	.12	.31	.00	5.01
ONCAEA SP.	.01	.02	.06	.00	.00	.00	.00	.31	.00	6.38
PARACALANUS PARVUS	.00	.02	.12	.04	.04	.21	.00	.00	.00	7.40
PLEUROMAMMA SP.	.01	.00	.00	.00	.00	.00	.00	.00	.00	.73
PSEUDOCALANUS MINUTUS	.03	.02	.00	.00	.04	.03	.00	.00	.95	12.72
RHINCALANUS NASUTUS	.01	.00	.00	.00	.00	.00	.00	.00	.00	.73
SCOLECITHRICELLA MINOR	.01	.00	.00	.00	.00	.00	.00	.00	.00	.73
SCOLECITHRIX BRADYI	.00	.04	.06	.00	.00	.00	.00	.00	.00	3.61
TEMORA LONGICORNIS	.03	.00	.00	.00	.04	.03	.00	.00	.00	2.12
UNID/DAM/EXO COPEPOD	.97	1.12	2.11	1.59	2.08	9.97	6.82	13.05	10.48	620.52
PARATHEMISTO ABYSSORUM	.00	.00	.00	.00	.04	.25	.50	.31	.00	10.87
PARATHEMISTO LIBELLULA	.00	.00	.00	.00	.00	.09	.00	.00	.00	.92
PARATHEMISTO SP.	.06	.00	.00	.02	.14	.25	1.12	.62	.00	24.61
M. NORVEGICA CALYPTOSIS	.00	.00	.00	.00	.00	.03	.00	.00	.00	.31
UNIDENTIFIED CALYPTOSIS	.04	.00	.00	.00	.00	.09	.00	.00	.00	2.20
T. LONGICAUDATA FURCILIAE	.00	.00	.00	.00	.00	.00	.12	.00	.00	1.24
THYSANOESSA SP. FURCILIAE	.00	.00	.00	.02	.00	.00	.12	.00	.00	1.69
THYSANOESSA SP. CALYPTOSIS	.00	.00	.00	.00	.00	.06	.00	2.49	4.76	73.10
EUPHAUSIID EGGS	.00	.00	.00	.00	.00	.03	.00	.00	.00	.31
DAMAGED FURCILIAE	.03	.00	.00	.00	.00	.03	.12	.00	.00	3.01
SAGITTA ELEGANS	.00	.00	.00	.02	.00	.03	.00	.31	.95	13.39
SAGITTA SP.	.00	.00	.00	.00	.00	.00	.12	.62	.00	7.46
EUKRONIA HAMATUS	.00	.00	.00	.00	.00	.00	.00	.31	.00	3.11
DAMAGED CHAETOGNATH	.00	.00	.00	.00	.04	.00	.12	.62	.95	17.33
SAGITTA SETOSA	.00	.00	.00	.00	.00	.00	.00	.31	.95	12.63

TOW 16 23/09/85 1330H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER									#/M2
SALP	.00	.00	.00	.00	.00	.00	.00	.62	.00	6.22

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

EUPHAUSIACEA	.000	.004	.026	.020	.000	.000	.000	.000	.036	1.728
STYLOCHEIRON SP.	.000	.000	.000	.010	.000	.000	.000	.000	.000	.249
THYSANOESSA INERMIS	.000	.004	.026	.000	.000	.000	.000	.000	.000	.872
THYSANOESSA LONGICAUDATA	.000	.000	.000	.010	.000	.000	.000	.000	.000	.249
DAMAGED/UNIDENTIFIED EUPHAUS	.000	.000	.000	.000	.000	.000	.000	.000	.036	.357
DECAPODA	.000	.004	.000	.000	.000	.000	.000	.000	.000	.215
SOLENOCERA	.000	.004	.000	.000	.000	.000	.000	.000	.000	.215
CHAETOGNATHA	.000	.017	.009	.000	.000	.000	.186	.513	.286	10.922
SAGITTA ELEGANS	.000	.000	.009	.000	.000	.000	.186	.513	.286	10.063
SAGITTA HEXAPTERA	.000	.004	.000	.000	.000	.000	.000	.000	.000	.215
SAGITTA MAXIMA	.000	.013	.000	.000	.000	.000	.000	.000	.000	.644

TOW 20 25/09/85 1330H	45 49.54 N	58 29.79								
SAMPLE	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	285.0	260.0	235.0	220.0	200.0	170.0	75.0	40.0	20.0	
DEPTH2 (M)	260.0	235.0	220.0	200.0	170.0	75.0	40.0	20.0	.0	
VOLUME OF WATER SAMPLED (M3)	153.	217.	147.	166.	221.	615.	229.	179.	117.	
TOTAL BIOMASS (G/M3)	4.034	2.736	1.429	.658	.217	.026	.039	.125	.176	220.005
EUPHAUSIACEA BIOMASS (G/M3)	.002	.005	.009	.001	.025	.001	.000	.000	.000	

SPECIES	NUMBER PER CUBIC METER									#/M2
UNIDENTIFIED/DAMAGED MEDUSA	.00	.00	.00	.00	.00	.00	.14	.00	.00	4.89
BEROE SP	.00	.00	1.74	.00	.00	.00	.00	.00	.00	26.09
GASTROPODA-JUVENILE	.00	.00	.00	.00	.00	.00	.07	.00	.00	2.45
LIMACINA HELICOIDES	.00	.00	.00	.00	.00	.21	.00	.36	.00	26.93
GYMNOSOMATA	.00	.00	.00	.00	.00	.00	.00	.72	.00	14.32
ACARTIA LONGIREMIS	.00	.00	.00	.00	.00	.00	.00	.36	.00	7.16
CALANUS FINMARCHICUS-TOTAL	2776.95	1639.15	476.52	593.26	150.72	11.14	14.81	138.52	382.79	145940.19
CALANUS FINMARCHICUS (D)	.00	18.84	1.74	.00	.00	.21	.14	3.94	.00	600.52
CALANUS FINMARCHICUS (G)	.00	.00	.00	.00	.00	.00	.21	11.18	3.29	295.07
CALANUS FINMARCHICUS (S)	53.40	18.84	3.48	.00	.58	.21	.14	1.07	1.10	1943.74
CALANUS FINMARCHICUS VIM	.00	.00	1.74	.00	.00	.00	.00	1.79	1.10	83.82
CALANUS FINMARCHICUS VIF	53.40	37.68	5.22	.00	.58	.42	.49	18.11	4.39	2839.33
CALANUS FINMARCHICUS V	1695.54	989.14	252.17	296.63	56.23	5.62	7.13	55.12	62.52	81655.57
CALANUS FINMARCHICUS IV	627.48	838.42	184.35	234.83	73.04	4.58	3.77	23.62	86.65	49873.33
CALANUS FINMARCHICUS III	.00	.00	.00	3.09	.00	.00	.21	5.01	40.58	981.01
CALANUS FINMARCHICUS II	.00	.00	.00	.00	.00	.00	.00	6.44	47.16	1072.13
CALANUS FINMARCHICUS I	.00	.00	.00	.00	.00	.00	.00	1.79	46.07	957.13
CALANUS GLACIALIS (D)	.00	18.84	5.22	.00	.58	.10	.00	.00	1.10	598.50
CALANUS GLACIALIS (S)	53.40	37.68	5.22	6.18	2.90	.21	.07	.72	2.19	2646.34
CALANUS GLACIALIS VIM	13.35	9.42	3.48	.00	1.16	.00	.14	.00	.00	661.13
CALANUS GLACIALIS VIF	53.40	56.52	10.43	6.18	3.48	.31	.07	.72	3.29	3244.84
CALANUS GLACIALIS V	854.45	612.33	92.17	108.15	24.93	1.98	2.86	11.45	8.77	41655.42
CALANUS GLACIALIS IV	1375.12	1365.96	262.61	395.51	69.57	5.52	5.59	12.17	31.81	84062.66
CALANUS GLACIALIS III	.00	.00	.00	.00	.00	.00	.00	.00	4.39	87.75
CALANUS GLACIALIS II	.00	.00	.00	.00	.00	.00	.00	.00	1.10	21.94
CALANUS GLACIALIS I	.00	.00	.00	.00	.00	.00	.00	.00	2.19	43.87
CALANUS HYPERBOREUS-TOTAL	1682.19	1252.92	276.52	376.97	84.64	6.45	8.24	22.91	51.55	89994.82
CALANUS HYPERBOREUS (D)	13.35	37.68	6.96	3.09	.58	.10	.28	.00	.00	1479.02
CALANUS HYPERBOREUS (S)	13.35	.00	.00	.00	.00	.00	.00	.00	1.10	355.70
CALANUS HYPERBOREUS VIF	26.70	37.68	6.96	3.09	.58	.10	.28	.00	1.10	1834.72
CALANUS HYPERBOREUS V	347.12	131.89	33.04	27.81	5.22	.42	1.47	3.22	4.39	13426.55
CALANUS HYPERBOREUS IV	1041.36	810.16	206.96	281.18	66.87	2.71	5.24	8.23	25.23	57951.58
CALANUS SP.	787.69	584.07	64.35	117.42	32.46	1.56	6.81	46.53	136.81	42590.84
CALANUS MINOR	.00	9.42	1.74	3.09	.00	.10	.00	.00	.00	333.28
CENTROPAGES TYPICUS	.00	.00	.00	.00	.00	.00	.00	.00	1.10	21.94
CLAUSOCALANUS FURCATUS	.00	.00	.00	.00	.00	.00	.00	.36	.00	7.16
CONAEA RAPAX	.00	.00	.00	.00	.00	.00	.00	1.07	4.39	109.22
EUCHEATA NORVEGICA	.00	.00	.00	3.09	.00	.00	.00	.36	.00	68.96
EUCHEATA SP.	40.05	9.42	10.43	9.27	4.06	1.25	.35	.72	.00	1845.67
METRIDIA LONGA	173.56	103.62	19.13	15.45	3.48	.83	1.05	2.15	6.58	7920.25
METRIDIA LUCENS	.00	9.42	.00	.00	.58	.21	.21	3.94	3.29	424.57
METRIDIA SP.	.00	.00	1.74	3.09	1.74	.10	.21	.36	.00	164.44
MICROCALANUS PYGMAEUS	.00	.00	.00	.00	.58	.83	.00	.00	.00	96.49
OITHONA ATLANTICA	.00	9.42	22.61	52.53	34.20	32.27	9.22	20.04	193.04	10301.04
OITHONA SIMILIS	13.35	37.68	17.39	6.18	1.16	.00	.42	7.52	63.62	3132.39
OITHONA SP.	.00	.00	1.74	.00	.00	.00	.00	.36	.00	33.25
ONCAEA SP.	.00	.00	.00	.00	.00	.00	.00	.00	1.10	21.94
PARACALANUS PARVUS	13.35	.00	.00	.00	.00	.00	.00	.00	.00	333.77
PSEUDOCALANUS MINUTUS	240.31	65.94	8.70	6.18	5.80	1.67	.21	8.59	20.84	8838.49
SCOLECITHRICELLA MINOR	13.35	.00	1.74	3.09	1.74	1.46	.21	.00	.00	619.59
TEMORA LONGICORNIS	.00	.00	.00	.00	.00	.00	.00	.00	3.29	65.81
UNID/DAM/EXO COPEPOD	106.81	28.26	12.17	6.18	3.48	2.19	4.12	19.33	70.20	5929.67
AMPHIPOD-DAMAGED	26.70	.00	.00	.00	.00	.00	.00	.72	1.10	703.79
PARATHEMISTO ABYSSORUM	.00	.00	.00	.00	.00	.00	.07	.00	.00	2.45
PARATHEMISTO GAUDICHAUDI	.00	.00	.00	.00	.00	.21	.00	.00	.00	19.78
PARATHEMISTO SP.	.00	.00	.00	.00	.00	.00	.00	1.07	.00	21.48
ISOPOD	.00	.00	1.74	.00	.00	.00	.00	.00	.00	26.09
M. NORVEGICA ADULT	.00	.00	.00	.00	.58	.31	.00	.00	.00	47.05
M. NORVEGICA FURCILIA	.00	.00	.00	.00	.00	.00	.63	.00	.00	22.01
THYSANOESSA LONGICAUDATA ADULT	.00	.00	.00	.00	.00	.10	.00	.00	.00	9.89
T. LONGICAUDATA FURCILIAE	.00	.00	.00	.00	.00	.00	.00	1.43	.00	28.64
THYSANOESSA SP. FURCILIAE	.00	.00	.00	.00	.00	.00	.00	.36	.00	7.16
EUPHAUSIID EGGS	.00	.00	.00	.00	1.74	.10	.14	.72	.00	81.27
EUPHAUSIID NAUPLII	.00	.00	.00	.00	.00	.00	.00	.00	3.29	65.81
DAMAGED FURCILIAE	.00	.00	.00	.00	.00	.00	.07	.00	.00	2.45
ECHINODERMATA-LARVAE	.00	.00	.00	.00	.00	.00	.14	5.37	4.39	200.02
SAGITTA ELEGANS	.00	.00	.00	.00	.00	.42	.28	.00	.00	49.33

TOW 20 25/09/85 1330H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER									#/M2
SAGITTA SP.	.00	.00	.00	.00	.00	.08	.07	.00	.00	2.45
OIKOPLEURA SP.	.00	.00	.00	.00	.00	.21	.00	.00	.00	19.78
DAMAGED APPENDICULARIA	.00	.00	.00	.00	.58	.00	.14	.00	.00	22.28

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

UNIDENTIFIED SIPHONOPHORE	.013	.000	.000	.000	.000	.000	.000	.000	.000	.326
CTENOPHORA	.104	.000	.041	.006	.014	.010	.000	.000	.000	4.674
AMPHIPODA	.000	.023	.027	.000	.000	.018	.004	.006	.000	2.947
PARATHEMISTO GAUDICHAUDII	.000	.023	.027	.000	.000	.018	.004	.006	.000	2.947
EUPHAUSIACEA	.007	.028	.034	.018	.190	.031	.009	.000	.000	10.672
MEGANYCTIPHANES NORVEGICA	.007	.018	.034	.006	.190	.026	.000	.000	.000	9.432
THYSANOESSA INERMIS	.000	.000	.000	.006	.000	.003	.009	.000	.000	.735
THYSANOESSA LONGICAUDATA	.000	.009	.000	.006	.000	.002	.000	.000	.000	.505
DECAPODA	.026	.014	.000	.000	.005	.000	.000	.000	.000	1.133
PASIPHAEA SP.	.026	.014	.000	.000	.000	.000	.000	.000	.000	.997
UNIDENTIFIED DECAPOD	.000	.000	.000	.000	.005	.000	.000	.000	.000	.136
CHAETOGNATHA	.156	.147	.149	.115	.032	.164	.170	.022	.009	35.261
EUKHRONIA HAMATA	.065	.120	.095	.030	.005	.007	.000	.000	.000	7.404
SAGITTA ELEGANS	.091	.028	.054	.084	.027	.158	.170	.022	.009	27.858

TOW 21 25/09/85 1538H	45 59.71 N	58 28.36								
SAMPLE	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	270.0	250.0	240.0	205.0	180.0	165.0	100.0	75.0	30.0	
DEPTH2 (M)	250.0	240.0	205.0	180.0	165.0	100.0	75.0	30.0	.0	
VOLUME OF WATER SAMPLED (M3)	181.	68.	258.	184.	116.	376.	138.	197.	124.	
TOTAL BIOMASS (G/M3)	1.228	.654	.112	.143	.223	.048	.020	.025	.104	49.828
EUPHAUSIACEA BIOMASS (G/M3)	.009	.002	.000	.000	.000	.000	.002	.003	.000	

SPECIES	NUMBER PER CUBIC METER									#/M2
SIPHONOPHORA	.00	.00	.41	1.16	1.11	.00	.00	.00	.00	60.11
LIMACINA BULIMOIDES	.00	.00	.00	.00	.00	.00	.00	.14	.00	6.88
LIMACINA HELICOIDES	.00	.00	.00	.00	.00	.00	.00	.00	3.87	116.13
LIMACINA INFLATA	.00	.00	.00	.00	.55	.00	.00	.00	.00	8.38
LIMACINA LESUEURII	.00	.00	.00	.00	.00	.00	.00	.00	.65	19.35
LIMACINA TROCHIFORMIS	.00	.00	.00	.00	.00	.28	.00	.14	.65	43.88
EVADNE SP.	.00	.00	.00	.00	.00	.00	.00	.00	.65	19.35
EVADNE NORDMANNI	.00	.00	.00	.58	.00	.00	.00	.00	.65	33.87
EVADNE SPINIFERA	.00	.00	.00	.00	.00	.00	.00	.14	.00	3.62
CONCHOECIA SPINIFERA	2.11	.00	.00	.00	.00	.00	.00	.00	.00	42.24
CALANUS FINMARCHICUS-TOTAL	126.73	115.12	39.69	49.94	62.56	13.05	5.80	5.54	152.90	13091.49
CALANUS FINMARCHICUS (D)	.00	2.35	1.65	.58	1.11	.85	.00	.14	1.29	212.61
CALANUS FINMARCHICUS (G)	.00	.00	.00	.58	.00	1.13	.87	.41	7.74	368.52
CALANUS FINMARCHICUS (S)	.00	.00	.00	.00	.00	.00	.00	.27	.65	31.52
CALANUS FINMARCHICUS VIM	.00	.00	.00	.00	.00	.28	.00	.14	.65	43.88
CALANUS FINMARCHICUS VIF	.00	2.35	1.65	1.16	1.11	1.99	.87	.81	9.68	604.65
CALANUS FINMARCHICUS V	95.05	77.53	28.53	32.52	45.49	6.52	2.75	2.97	29.68	6685.74
CALANUS FINMARCHICUS IV	31.68	35.24	9.10	14.52	12.73	3.12	1.59	1.08	18.71	2710.99
CALANUS FINMARCHICUS III	.00	.00	.00	.58	.55	.00	.43	.00	24.52	769.17
CALANUS FINMARCHICUS II	.00	.00	.00	1.16	1.11	.00	.14	.41	16.77	570.74
CALANUS FINMARCHICUS I	.00	.00	.41	.00	1.66	1.13	.00	.14	52.90	1706.32
CALANUS GLACIALIS (D)	2.11	1.17	.41	.00	1.66	.00	.00	.00	.65	112.73
CALANUS GLACIALIS (S)	.00	.00	.41	.58	.00	.00	.00	.00	.00	28.99
CALANUS GLACIALIS VIM	.00	.00	.00	.00	1.11	.00	.14	.00	.00	20.23
CALANUS GLACIALIS VIF	2.11	1.17	.83	.58	1.66	.00	.00	.00	.65	141.72
CALANUS GLACIALIS V	31.68	17.62	5.79	6.39	12.73	1.99	.29	.41	5.81	1691.91
CALANUS GLACIALIS IV	40.13	22.32	4.96	15.68	16.06	8.51	.29	.68	1.94	2481.17
CALANUS HYPERBOREUS-TOTAL	251.35	78.48	12.40	11.61	27.13	3.12	1.16	3.24	10.97	7570.09
CALANUS HYPERBOREUS (D)	2.11	2.35	.41	.00	.55	.00	.00	.00	.00	88.51
CALANUS HYPERBOREUS (S)	.00	.00	.00	.00	.00	.00	.00	.00	.65	19.35
CALANUS HYPERBOREUS VIF	2.11	2.35	.41	.00	.55	.00	.00	.00	.65	107.87
CALANUS HYPERBOREUS V	31.68	16.45	.83	1.16	1.11	.00	.14	.14	1.29	921.12
CALANUS HYPERBOREUS IV	215.45	46.99	9.51	9.29	25.47	2.84	1.01	3.11	9.03	6346.51
CENTROPAGES HAMATUS	.00	.00	.00	.00	.00	.00	.00	.00	1.29	38.71
CENTROPAGES TYPICUS	.00	.00	.00	.00	.00	.00	.00	.00	.65	19.35
CLAUSOCALANUS FURCATUS	.00	.00	.00	.00	.00	.28	.00	.00	.00	18.44
EUCHEATA NORVEGICA	.00	.00	.00	.58	.55	.00	.00	.14	.00	28.99
EUCHAETA TONSA	.00	.00	.00	.00	.00	.28	.00	.00	.00	18.44
EUCHEATA SP.	.00	.00	.00	.00	.55	.28	.00	.00	.00	26.74
GAIDIUS TENUISPINUS	.00	1.17	2.89	4.06	.55	.00	.00	.00	.00	222.96
METRIDIA LONGA	12.67	10.57	3.31	5.81	8.38	.57	.14	.41	.65	822.79
METRIDIA LUCENS	2.11	1.17	8.68	6.97	8.38	1.70	.72	.14	8.39	1043.08
MICROCALANUS PYGMAEUS	.00	.00	.00	.00	.00	1.99	.72	.00	.00	147.19
OITHONA ATLANTICA	.00	.00	.41	2.32	3.88	2.55	4.06	.95	1.29	479.36
OITHONA SIMILIS	18.56	4.70	7.83	8.13	7.29	18.16	29.71	10.81	201.94	9282.92
PARACALANUS PARVUS	.00	.00	.00	.00	.00	.00	.00	.00	.65	19.35
PSEUDOCALANUS MINUTUS	8.45	10.57	.83	5.23	4.43	.85	7.10	2.97	38.06	2009.33
SCOLECITHRICELLA MINOR	.00	.00	.00	4.06	4.98	2.84	.14	.14	.00	370.46
SPINOCALANUS ABYSSALLIS	.00	.00	.00	.00	1.66	1.42	1.88	.14	.00	170.38
SPINOCALANUS SP.	.00	1.17	.83	.00	.00	.00	.00	.00	.00	40.69
TEMORA LONGICORNIS	.00	.00	.41	.00	.00	.00	.00	.14	13.55	427.00
UNDEUCHAETA SP.	.00	1.17	.00	.00	.00	.00	.00	.00	.00	11.75
UNID/DAM/EXD COPEPOD	6.34	39.94	7.03	10.45	13.84	2.84	3.04	4.05	27.10	2496.98
COPEPOD NAUPLII	.00	.00	.00	.00	.00	.28	.00	.00	5.16	173.28
AMPHIPODA EGGS	.00	.00	.00	.00	.00	1.13	.00	.00	.00	73.76
PARATHEMISTO SP.	.00	.00	.00	.00	.00	.00	.00	.41	.00	18.25
UNIDENTIFIED CALYPTOSIS	.00	.00	.00	.00	.00	.00	.00	.00	1.29	38.71
EUPHAUSIID EGGS	2.11	.00	.00	.00	.00	.00	.29	.27	1.94	119.72
EUPHAUSIID NAUPLII	.00	.00	.00	.00	.55	.00	.00	.41	.00	26.55
ECHINODERMATA-LARVAE	.00	.00	.00	.00	.00	.00	1.16	.00	.00	28.99

TOW 21 25/09/85 1530H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER									#/M2
LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON										
UNIDENTIFIED SIPHONOPHORE	.050	.059	.004	.005	.000	.000	.000	.000	.000	1.849
UNIDENTIFIED MEDUSA	.000	.000	.004	.000	.000	.005	.000	.000	.000	.481
CTENOPHORA	.000	.000	.000	.000	.000	.005	.007	.000	.048	1.979
TOMOPTERIS SP.	.010	.015	.004	.000	.000	.000	.000	.000	.000	.481
AMPHIPODA	.010	.015	.000	.000	.009	.032	.014	.000	.008	3.153
PARATHEMISTO GAUDICHAUDII	.010	.015	.000	.000	.009	.032	.014	.000	.008	3.153
EUPHAUSIACEA	.040	.044	.004	.005	.026	.008	.210	.289	.032	21.634
MEGANYCTIPHANES NORVEGICA	.040	.044	.000	.000	.000	.000	.000	.000	.008	1.475
NEMATOSCELIS MEGALOPS	.000	.000	.004	.000	.000	.000	.000	.000	.000	.136
THYSANOESSA INERMIS	.000	.000	.000	.000	.017	.005	.036	.091	.000	5.616
THYSANOESSA LONGICAUDATA	.000	.000	.000	.005	.009	.003	.174	.198	.024	14.407
DECAPODA	.040	.059	.004	.005	.026	.000	.000	.000	.008	2.282
PASIPHAEA SP.	.040	.059	.004	.005	.026	.000	.000	.000	.008	2.282
CHAETOGNATHA	.139	.132	.031	.049	.147	.154	.043	.010	.016	20.663
EUKHRONIA HAMATA	.139	.088	.027	.044	.112	.027	.007	.005	.008	9.758
SAGITTA ELEGANS	.000	.044	.004	.005	.026	.128	.036	.005	.008	10.775
UNIDENTIFIED CHAETOGNATH	.000	.000	.000	.000	.009	.000	.000	.000	.000	.130

TOW 22 26/09/85 0830H	46 31.51 N 58 16.68									
SAMPLE	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	430.0	365.0	300.0	250.0	200.0	150.0	71.0	30.0	20.0	
DEPTH2 (M)	365.0	300.0	250.0	200.0	150.0	71.0	30.0	20.0	.0	
VOLUME OF WATER SAMPLED (M3)	145.	226.	222.	221.	210.	298.	149.	31.	99.	
TOTAL BIOMASS (G/M3)	.223	.127	.121	.075	.082	.018	.018	.059	.089	41.182
EUPHAUSIACEA BIOMASS (G/M3)	.000	.003	.007	.001	.001	.003	.003	.006	.000	

SPECIES	NUMBER PER CUBIC METER									#/M2
SIPHONOPHORA	.00	.71	.96	.00	.00	.00	.00	.00	.00	94.07
LIMACINA BULIMOIDES	.00	.00	.32	.00	1.52	.54	.00	1.29	.00	147.57
LIMACINA HELICOIDES	.00	.24	.32	.00	.51	.54	.10	.18	2.16	148.33
LIMACINA LESUEURII	.00	.00	.00	.36	.25	.98	.23	.00	3.24	182.97
LIMACINA TROCHIFORMIS	.00	.00	.32	.00	.00	.54	.13	.37	.00	67.63
LIMACINA SP.	.00	.00	.00	.00	.76	.36	.07	.18	.00	70.97
LIMACINA HELICINA	.00	.00	.00	.00	.00	.00	.00	.18	.00	1.85
GYMNOSOMATA	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.38
BIVALVE LARVAE	.00	.00	.00	.00	.00	.00	.03	.00	1.08	22.97
CONCHOECIA BOREALIS	1.47	.00	.32	.00	.00	.00	.00	.00	.00	111.65
CONCHOECIA CURTA	.00	.00	.00	.00	.00	.09	.00	.00	.00	7.87
CONCHOECIA INERMIS	.00	.24	.00	.00	.00	.00	.00	.00	.00	15.34
CONCHOECIA SPINIFERA	.25	.24	.00	.00	.00	.00	.00	.00	.00	31.28
CONCHOECIA SPINIROSTRIS	1.23	.47	.00	.00	.00	.00	.00	.00	.00	110.37
CONCHOECIA SP.	1.47	.24	.00	.00	.00	.00	.00	.00	.00	110.97
CALANUS FINMARCHICUS-TOTAL	10.54	16.05	26.91	21.72	15.49	2.77	2.28	18.86	158.70	8609.78
CALANUS FINMARCHICUS (D)	.49	.24	.00	.00	.51	.09	.07	.18	.00	84.28
CALANUS FINMARCHICUS (G)	.00	.00	.00	.36	.00	.09	.03	.92	2.16	78.98
CALANUS FINMARCHICUS (S)	.00	.00	1.28	.00	.76	.09	.07	.37	.00	115.68
CALANUS FINMARCHICUS VIM	.00	.00	.00	.72	.00	.00	.00	.18	.00	38.05
CALANUS FINMARCHICUS VIF	.49	.24	1.28	.36	1.27	.27	.17	1.48	2.16	278.94
CALANUS FINMARCHICUS V	7.11	13.69	22.74	13.03	4.83	1.43	1.14	9.25	24.83	4138.87
CALANUS FINMARCHICUS IV	2.70	1.89	2.88	7.24	8.89	.98	.74	4.87	59.38	2584.92
CALANUS FINMARCHICUS III	.25	.00	.00	.36	.25	.09	.23	2.22	45.34	992.51
CALANUS FINMARCHICUS II	.00	.24	.00	.00	.25	.00	.00	1.48	15.11	345.13
CALANUS FINMARCHICUS I	.00	.00	.00	.00	.00	.00	.00	.37	11.88	241.22
CALANUS GLACIALIS (D)	.00	.00	.32	.36	.00	.00	.00	.00	.00	34.12
CALANUS GLACIALIS (S)	.00	.00	.00	.36	.00	.00	.00	.00	.00	18.10
CALANUS GLACIALIS VIM	.00	.00	.00	.00	.76	.09	.00	.00	.00	45.16
CALANUS GLACIALIS VIF	.00	.00	.32	.72	.00	.00	.00	.00	.00	52.22
CALANUS GLACIALIS V	.74	4.48	7.65	11.95	4.83	1.61	.17	1.11	.00	1675.39
CALANUS GLACIALIS IV	1.23	3.07	7.37	14.12	8.13	.98	.20	1.48	1.08	1882.11
CALANUS HYPERBOREUS-TOTAL	37.76	16.28	9.93	2.17	1.52	.36	.70	4.81	3.24	4364.28
CALANUS HYPERBOREUS (D)	.74	.47	.00	.00	.25	.00	.03	.00	.00	92.57
CALANUS HYPERBOREUS (S)	.25	.00	.00	.00	.00	.18	.03	.37	.00	35.15
CALANUS HYPERBOREUS VIF	.98	.47	.00	.00	.25	.18	.07	.37	.00	127.72
CALANUS HYPERBOREUS V	11.03	3.30	1.92	.72	.00	.00	.20	2.03	2.16	1136.07
CALANUS HYPERBOREUS IV	25.01	12.04	8.01	1.45	1.27	.18	.44	2.40	1.08	3022.00
CALANUS SP.	3.19	3.07	24.02	2.90	2.29	2.06	1.07	8.51	.00	2158.59
EUCHEATA NORVEGICA	2.21	.47	.32	1.09	.00	.18	.00	.00	.00	258.58
EUCHEATA SP.	.00	.00	.00	.72	.25	.09	.00	.00	.00	55.97
GAIDIUS TENUISPINUS	2.45	3.54	.96	.36	.25	.00	.03	.00	.00	469.70
METRIDIA LONGA	1.47	2.69	4.80	7.96	10.92	.27	.17	1.11	2.16	1531.19
METRIDIA LUCENS	.25	.00	.64	5.79	5.08	.27	.03	.37	.00	617.81
OITHONA ATLANTICA	.00	.24	.64	1.45	.51	.09	.00	.18	.00	154.08
OITHONA SIMILIS	.49	.71	.32	2.17	4.32	4.12	.30	1.29	17.27	1114.38
ONCAEA CONIFERA	.00	.00	.00	.00	.25	.00	.00	.00	.00	12.70
ONCAEA SP.	.49	.00	.00	.00	.00	.00	.00	.00	.00	31.88
PSEUDOCALANUS MINUTUS	.25	.47	.00	.36	.76	.36	.07	.74	11.88	378.76
SCOLECITHRICELLA MINOR	.00	.94	.32	2.53	.00	.89	.00	.00	.00	274.76
SPINOCALANUS ABYSSALLIS	5.15	2.83	1.92	.72	.00	1.25	.00	.00	.00	758.85
TEMORA LONGICORNIS	.00	.00	.00	.00	.00	.00	.00	.00	1.08	21.59
UNID/DAM/EXO COPEPOD	8.09	3.54	6.73	5.07	4.57	1.43	1.24	3.51	8.64	1946.26
UNIDENTIFIED HARPACTICOID	.25	.00	.00	.00	.00	.00	.00	.00	.00	15.94
CALANUS SPP. NAUPLII	.00	.47	.00	.00	.00	.00	.00	.00	.00	30.68
COPEPOD NAUPLII	.00	.00	.00	.00	.25	.00	.00	.18	.00	14.55
AMPHIPODA EGGS	.00	.00	.00	.00	.00	.00	.20	.00	.00	8.26
PARATHEMISTO LIBELLULA	.00	.00	.00	.00	.00	.00	.10	.00	.00	4.13
PARATHEMISTO SP.	.00	.24	.00	.00	.00	.63	.13	1.85	3.24	153.60
M. NORVEGICA FURCILIA	.00	.24	.00	.00	.00	.00	.54	.00	.00	37.35
UNIDENTIFIED CALYPTOSIS	.00	.00	.00	.00	.00	.00	.47	.00	.00	19.26
T. LONGICAUDATA FURCILIAE	.00	.00	.00	.00	.00	.00	.00	.18	.00	1.85
THYSANOESSA SP. CALYPTOSIS	.00	.00	.00	.00	.00	.00	.00	.00	1.08	21.59
EUPHAUSIID EGGS	.00	.00	.32	.72	.51	.27	.07	1.85	10.80	335.99
EUPHAUSIID NAUPLII	.00	.00	.00	.00	.00	.09	.03	.37	1.08	33.74
DAMAGED FURCILIAE	.00	.00	.00	.00	.00	.00	.30	.37	.00	16.68
DECAPOD LARVAE	.00	.00	.00	.00	.00	.00	.00	.18	.00	1.85

TOW 22 26/09/85 0830H (CONTINUED)
SAMPLE 2 3 4 5 6 7 8 9 10

SPECIES	NUMBER PER CUBIC METER									#/M2
ECHINODERMATA-LARVAE	.00	.00	.00	.00	.00	.00	.00	.92	.00	9.25
DAMAGED APPENDICULARIA	.00	.00	.00	.00	.00	.54	.07	.00	.00	45.17
FRITILLARIA SP.	.00	.00	.00	.00	.00	.09	.00	.00	.00	7.87

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

DIPHIDAE	.007	.000	.005	.000	.000	.000	.000	.000	.000	.674
UNIDENTIFIED SIPHONOPHORE	.021	.000	.014	.000	.014	.000	.000	.000	.000	2.735
UNIDENTIFIED MEDUSA	.014	.000	.000	.000	.000	.000	.000	.000	.000	.897
CTENOPHORA	.007	.004	.000	.000	.005	.000	.000	.000	.000	.974
TOMOPTERIS SP.	.000	.031	.000	.000	.000	.000	.000	.000	.000	2.013
AMPHIPODA	.000	.000	.000	.009	.014	.040	.013	.000	.000	4.898
PARATHEMISTO GAUDICHAUDII	.000	.000	.000	.009	.014	.040	.013	.000	.000	4.898
MYSIDACEA	.028	.000	.000	.000	.000	.000	.000	.000	.000	1.793
BOREOMYSIS SP.	.028	.000	.000	.000	.000	.000	.000	.000	.000	1.793
EUPHAUSIACEA	.007	.018	.045	.027	.033	.027	.141	.032	.000	15.098
EUPHAUSIA KROHNII	.000	.000	.000	.000	.010	.000	.000	.000	.000	.476
MEGANYCTIPHANES NORVEGICA	.000	.013	.045	.027	.019	.020	.054	.032	.000	9.541
THYSANOESSA INERMIS	.000	.000	.000	.000	.000	.003	.087	.000	.000	3.842
THYSANOESSA LONGICAUDATA	.000	.004	.000	.000	.000	.003	.000	.000	.000	.553
DAMAGED/UNIDENTIFIED EUPHAUS	.007	.000	.000	.000	.005	.000	.000	.000	.000	.686
DECAPODA	.055	.111	.000	.000	.000	.000	.007	.000	.000	11.052
PASIPHAEA SP.	.055	.111	.000	.000	.000	.000	.007	.000	.000	11.052
CHAETOGNATHA	.110	.044	.027	.032	.081	.050	.000	.032	.010	21.534
EUKHRONIA HAMATA	.110	.044	.023	.027	.071	.003	.000	.032	.010	18.895
SAGITTA ELEGANS	.000	.000	.005	.005	.010	.040	.000	.000	.000	4.189
UNIDENTIFIED CHAETOGNATH	.000	.000	.000	.000	.000	.007	.000	.000	.000	.539
PISCES	.000	.004	.000	.000	.000	.000	.000	.000	.000	.288
BENTHOSEMA GLACIALE	.000	.004	.000	.000	.000	.000	.000	.000	.000	.288

TOW 23 26/09/85 1730H	45 46.56 N	57 26.72								
SAMPLE	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	400.0	350.0	300.0	250.0	200.0	150.0	75.0	50.0	20.0	
DEPTH2 (M)	350.0	300.0	250.0	200.0	150.0	75.0	50.0	20.0	.0	
VOLUME OF WATER SAMPLED (M3)	151.	237.	277.	238.	160.	152.	36.	35.	38.	
TOTAL BIOMASS (G/M3)	.123	.080	.055	.048	.193	.092	.048	.087	.128	37.558
EUPHAUSIACEA BIOMASS (G/M3)	.000	.006	.003	.001	.000	.000	.003	.014	.001	

SPECIES	NUMBER PER CUBIC METER									#/M2
SIPHONOPHORA	.00	.81	.00	.00	.00	.00	.00	.19	.00	46.22
LIMACINA BULIMOIDES	.00	.00	.00	.00	.00	.70	.00	.00	.00	52.63
LIMACINA HELICOIDES	.00	.27	.00	.00	.00	.00	.00	.00	2.11	55.61
LIMACINA INFLATA	.00	.00	.17	.00	.00	.00	.00	.00	.00	8.25
LIMACINA TROCHIFORMIS	.18	.00	.17	.00	.00	.00	.00	.00	2.11	59.19
LIMACINA SP.	.18	.00	.00	.00	1.33	.00	.00	.00	.00	75.50
GYMNOSOMATA	.00	.00	.00	.00	.00	.70	.00	.00	.00	52.63
CONCHOECIA BOREALIS	.71	.00	.00	.00	.00	.00	.22	.19	.00	46.59
CONCHOECIA SPINIROSTRIS	.53	.81	.00	.54	.67	.00	.22	.19	.00	138.49
CONCHOECIA SP.	.00	.00	.00	.27	.67	.00	.00	.00	.00	46.78
AETIDEUS ARMATUS	.00	.00	.00	.00	.67	.70	.00	.19	.00	91.68
CALANUS FINMARCHICUS-TOTAL	10.42	17.01	12.38	30.12	52.00	49.82	20.00	16.95	326.32	17368.09
CALANUS FINMARCHICUS (D)	.35	.27	.00	.27	.67	.00	1.11	.19	.00	111.43
CALANUS FINMARCHICUS (G)	.00	.00	.17	.00	.00	2.11	2.44	.95	10.53	466.36
CALANUS FINMARCHICUS (S)	.88	.54	.00	.54	1.33	2.11	.67	.57	2.11	398.52
CALANUS FINMARCHICUS VIM	.00	.00	.00	.00	.00	1.40	.44	.19	.00	122.09
CALANUS FINMARCHICUS VIF	1.24	.81	.17	.81	2.00	4.21	4.22	1.71	12.63	976.31
CALANUS FINMARCHICUS V	7.24	10.53	9.74	24.20	42.00	35.79	7.78	8.38	37.89	8573.52
CALANUS FINMARCHICUS IV	1.41	5.13	2.15	4.57	6.67	7.02	3.56	2.29	48.42	2648.55
CALANUS FINMARCHICUS III	.18	.27	.00	.00	.67	.70	.22	.95	35.79	858.21
CALANUS FINMARCHICUS II	.18	.27	.17	.27	.00	.00	.22	.57	42.11	908.83
CALANUS FINMARCHICUS I	.18	.00	.17	.27	.67	.70	3.56	2.86	149.47	3280.57
CALANUS GLACIALIS (S)	.00	.00	.00	.27	.00	.00	.00	.00	.00	13.45
CALANUS GLACIALIS VIM	.00	.00	.00	.00	.00	.70	.00	.00	.00	52.63
CALANUS GLACIALIS VIF	.00	.00	.00	.27	.00	.00	.00	.00	.00	13.45
CALANUS GLACIALIS V	1.77	3.24	2.31	6.18	8.67	10.53	1.78	1.52	6.32	2114.37
CALANUS GLACIALIS IV	1.77	2.97	2.48	3.23	24.00	11.93	.89	2.86	2.11	2766.72
CALANUS GLACIALIS III	.18	.00	.00	.00	.00	.00	.00	.00	.00	8.83
CALANUS HYPERBOREUS-TOTAL	13.25	9.18	2.81	2.42	6.67	.70	4.00	3.05	14.74	2254.74
CALANUS HYPERBOREUS (D)	.18	.00	.00	.00	.00	.00	.67	.38	2.11	79.03
CALANUS HYPERBOREUS (S)	.18	.00	.17	.00	.00	.70	.00	.00	.00	69.71
CALANUS HYPERBOREUS VIF	.35	.00	.17	.00	.00	.70	.67	.38	2.11	148.74
CALANUS HYPERBOREUS V	2.65	1.08	.17	.27	.00	.00	1.33	1.52	4.21	371.41
CALANUS HYPERBOREUS IV	9.18	7.83	2.31	1.61	5.33	.00	2.00	1.14	8.42	1566.29
CALANUS SP.	2.65	4.32	5.61	.54	1.33	.00	.44	3.81	14.74	1142.73
CENTROPAGES TYPICUS	.00	.00	.00	.00	.00	.00	.44	.38	8.42	190.96
CHIRIDIUS GRACILIS	1.59	.00	.00	.00	.00	.00	.00	.00	.00	79.47
CLAUSOCALANUS FURCATUS	.18	.54	.00	.00	.67	3.51	.00	.19	4.21	422.25
CLYTEMNESTRA SCUTELLATA	.00	.00	.00	.00	.00	.00	.00	.19	.00	5.71
EUCHEATA NORVEGICA	1.77	.27	.00	.00	.67	.70	.44	.38	.00	210.31
EUCHEATA SP.	.00	.27	.50	.81	2.67	2.81	.22	.00	.00	428.81
GAIDIUS TENUISPINUS	1.94	5.40	1.65	5.92	8.00	1.40	.22	.19	2.11	1304.13
LUCICUTIA FLAVICORNIS	.00	.00	.33	.00	.00	.00	.00	.00	.00	16.50
METRIDIA LONGA	4.66	5.67	1.82	.81	1.33	16.84	.89	1.71	.00	2021.21
METRIDIA LUCENS	.18	4.86	3.63	2.15	10.00	20.77	3.78	3.05	8.42	3553.16
MICROCALANUS PYGMAEUS	.88	1.08	.00	.54	.00	1.40	.00	.00	.00	230.31
OITHONA ATLANTICA	.00	.00	.33	.81	1.33	11.23	2.44	.38	.00	1038.15
OITHONA SIMILIS	.71	1.08	3.38	2.96	7.33	24.56	10.22	6.29	387.37	10802.53
ONCAEA BOREALIS	.00	.00	.17	.00	.00	.00	.00	.00	.00	8.25
ONCAEA CONIFERA	.00	.00	.00	.00	.00	.00	.00	.19	.00	5.71
ONCAEA SP.	.35	.27	.00	.27	.67	.70	.00	.00	.00	138.57
PARACALANUS PARVUS	.00	.00	.17	.00	.00	.00	.22	.00	12.63	266.44
PSEUDOCALANUS MINUTUS	1.06	.54	.66	.27	.00	11.93	5.78	1.90	31.58	1854.34
SCOLECITHRICELLA MINOR	.53	2.97	.00	1.08	2.67	18.95	1.78	1.33	2.11	1909.73
SPINOCALANUS ABYSSALLIS	6.53	4.32	.00	3.50	5.33	4.91	2.44	1.90	.00	1470.88
SPINOCALANUS SP.	.00	.00	.00	.00	.00	.70	.00	.00	.00	52.63
TEMORA LONGICORNIS	.00	.00	.00	.00	.00	.00	.00	.19	.00	5.71
UNID/DAM/EXO COPEPOD	7.59	8.64	8.75	2.15	9.33	7.72	8.89	12.38	44.21	3880.14
UNIDENTIFIED HARPACTICOID	.00	.27	.00	.00	.00	.00	.00	.00	.00	13.50
COPEPOD NAUPLII	.00	.00	.17	.00	1.33	1.40	.67	.57	16.84	556.83
AMPHIPODA EGGS	.00	.00	.17	.00	.00	7.72	.00	.00	.00	587.20
PARATHEMISTO SP.	.53	.00	.00	.00	.00	.70	.00	.19	.00	84.84
MYSID	.00	.00	.17	.00	.00	.00	.00	.00	.00	8.25
M. NORVEGICA CALYPTOSIS	.00	.00	.00	.00	.00	.00	.00	.00	2.11	42.11
T. LONGICAUDATA FURCILIAE	.00	.00	.00	.27	.00	.00	.00	.00	.00	13.45
THYSANOESSA SP. CALYPTOSIS	.00	.00	.17	.00	.00	.70	.44	.57	10.53	299.66
EUPHAUSIID EGGS	.00	.00	.00	.54	.00	.00	.22	.38	2.11	85.98

TOW 23 26/09/85 1730H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER									#/M2
EUPHAUSIID NAUPLII	.00	.00	.00	.00	.00	.00	.00	.00	6.32	126.32
DAMAGED FURCILIAE	.00	.27	.00	.00	.00	.00	.00	.00	.00	13.50
ECHINODERMATA-LARVAE	.00	.00	.00	.00	.00	.00	.00	2.10	2.11	104.96
SAGITTA SETOSA	.00	.00	.00	.00	.00	.70	.00	.00	.00	52.63
FRITILLARIA SP.	.00	.00	.33	.00	.00	.00	.00	.00	6.32	142.82

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

DIPHIDAE	.000	.000	.000	.000	.006	.000	.000	.000	.000	.313
UNIDENTIFIED SIPHONOPHORE	.013	.000	.000	.000	.006	.020	.000	.000	.000	2.455
UNIDENTIFIED MEDUSA	.000	.000	.000	.004	.000	.000	.000	.000	.000	.210
CTENOPHORA	.007	.004	.000	.000	.000	.000	.000	.000	.000	.542
AMPHIPODA	.007	.004	.007	.008	.013	.033	.028	.000	.000	5.110
PARATHEMISTO GAUDICHAUDII	.007	.004	.007	.008	.013	.033	.028	.000	.000	5.110
MYSIDACEA	.000	.000	.010	.000	.006	.000	.000	.000	.000	.313
BOREOMYSIS SP.	.000	.000	.000	.000	.006	.000	.000	.000	.000	.313
EUPHAUSIACEA	.026	.030	.018	.021	.019	.020	.306	1.571	.053	63.006
MEGANYCTIPHANES NORVEGICA	.000	.025	.011	.000	.000	.000	.000	.000	.000	1.807
NEMATOSCELIS MEGALOPS	.000	.000	.000	.013	.000	.000	.000	.000	.000	.630
THYSANOESSA INERMIS	.000	.000	.000	.000	.000	.000	.000	.029	.000	.857
THYSANOESSA LONGICAUDATA	.013	.004	.004	.008	.019	.007	.306	1.543	.053	57.882
DAMAGED/UNIDENTIFIED EUPHAUS	.013	.000	.004	.000	.000	.013	.000	.000	.000	1.830
DECAPODA	.007	.025	.058	.008	.019	.000	.028	.000	.000	6.537
PASIPHAEA SP.	.007	.021	.058	.000	.019	.000	.028	.000	.000	5.906
SERGESTES SP.	.000	.004	.000	.000	.000	.000	.000	.000	.000	.211
UNIDENTIFIED DECAPOD	.000	.000	.000	.008	.000	.000	.000	.000	.000	.420
CHAETOGNATHA	.046	.030	.025	.021	.094	.671	.389	.143	.079	76.712
EUKHRONIA HAMATA	.046	.025	.022	.013	.088	.197	.000	.000	.053	25.527
SAGITTA ELEGANS	.000	.000	.000	.008	.006	.454	.389	.143	.026	49.313
SAGITTA MAXIMA	.000	.000	.000	.000	.000	.020	.000	.000	.000	1.480
UNIDENTIFIED CHAETOGNATH	.000	.004	.004	.000	.000	.000	.000	.000	.000	.391
PISCES	.000	.000	.007	.000	.000	.000	.000	.000	.000	.361
BENTHOSEMA GLACIALE	.000	.000	.004	.000	.000	.000	.000	.000	.000	.181
CYCLOTHONE SP.	.000	.000	.004	.000	.000	.000	.000	.000	.000	.181

TOW 24 26/09/85 2300H	45 18.03 N	57 02.18						
SAMPLE	2	3	4	5	6	7	8	9	
DEPTH1 (M)	400.0	300.0	250.0	200.0	100.0	50.0	30.0	10.0	
DEPTH2 (M)	300.0	250.0	200.0	100.0	50.0	30.0	10.0	.0	
VOLUME OF WATER SAMPLED (M3)	353.	233.	215.	349.	187.	23.	16.	26.	
TOTAL BIOMASS (G/M3)	.051	.025	.057	.020	.067	.208	.270	2.490	48.932
EUPHAUSIACEA BIOMASS (G/M3)	.000	.001	.002	.002	.054	.134	.255	2.131	
SIPHONOPHORA	.18	.06	.00	.00	.00	.00	.00	.00	20.99
LIMACINA BULIMOIDES	.00	.00	.00	.00	.07	.00	.00	.00	3.74
LIMACINA HELICOIDES	.00	.00	.00	.18	.00	.00	.06	.66	26.21
LIMACINA SP.	.18	.06	.37	.83	.37	.29	.00	.00	146.71
GYMNOSOMATA	.00	.00	.00	.37	.00	.29	.00	.00	42.58
BIVALVE LARVAE	.00	.00	.00	.00	.07	.00	.00	.00	3.74
TOMOPTERIS SP.	.00	.00	.12	.00	.00	.00	.00	.00	6.20
CONCHOECIA BOREALIS	.00	.00	.00	.37	.00	.00	.00	.00	36.68
CONCHOECIA CURTA	.18	.17	.12	.73	.00	.59	.00	.44	122.48
CONCHOECIA OBTUSATA	.00	.00	.00	.46	.00	.00	.00	.00	45.85
CONCHOECIA SPINIFERA	.00	.00	.00	.37	.15	.00	.00	.22	46.36
CONCHOECIA SPINIROSTRIS	.54	1.72	.74	.00	.00	.59	.00	.00	189.24
CONCHOECIA SP.	.00	.34	.00	.18	.00	.88	.00	.00	53.20
AETIDEUS ARMATUS	.00	.06	.74	.37	.07	.00	.06	.00	81.74
CALANUS FINMARCHICUS-TOTAL	13.24	2.69	9.18	4.77	4.34	15.34	4.56	37.95	3388.83
CALANUS FINMARCHICUS (D)	.00	.06	.00	.09	.07	.88	.13	1.54	51.41
CALANUS FINMARCHICUS (G)	.00	.00	.00	.00	.30	.88	.25	7.50	112.67
CALANUS FINMARCHICUS (S)	.18	.00	.37	.18	.00	.59	.19	2.43	94.89
CALANUS FINMARCHICUS VIM	.00	.11	.00	.46	.00	.29	.06	1.54	74.16
CALANUS FINMARCHICUS VIF	.18	.06	.37	.28	.37	2.36	.56	11.47	258.97
CALANUS FINMARCHICUS V	9.43	1.49	6.57	3.12	1.42	3.24	1.06	7.58	1889.79
CALANUS FINMARCHICUS IV	3.63	.86	1.98	.83	1.57	5.01	.94	11.03	895.14
CALANUS FINMARCHICUS III	.00	.06	.25	.09	.75	3.24	.50	4.85	185.25
CALANUS FINMARCHICUS II	.00	.06	.00	.00	.00	.88	.75	1.32	48.80
CALANUS FINMARCHICUS I	.00	.06	.00	.00	.22	.29	.69	.22	35.93
CALANUS GLACIALIS (S)	.18	.06	.00	.00	.00	.00	.00	.00	20.99
CALANUS GLACIALIS VIF	.18	.06	.00	.00	.00	.00	.00	.00	20.99
CALANUS GLACIALIS V	5.62	.63	2.11	.55	.37	.88	.00	1.54	805.79
CALANUS GLACIALIS IV	1.81	.11	.87	.09	.00	.00	.00	.22	241.81
CALANUS GLACIALIS III	.00	.11	.00	.09	.00	.00	.00	.00	14.89
CALANUS HYPERBOREUS-TOTAL	3.44	.29	1.98	.00	.15	.00	.06	.00	466.73
CALANUS HYPERBOREUS V	.73	.06	.37	.00	.00	.00	.06	.00	95.24
CALANUS HYPERBOREUS IV	2.72	.23	1.49	.00	.15	.00	.00	.00	365.29
CALANUS SP.	3.44	2.63	8.81	.55	1.20	5.90	.69	14.12	1304.18
CALANUS MINOR	.00	.00	.00	.00	.00	.29	.06	.00	7.15
CENTROPAGES TYPICUS	.00	.00	.00	.00	.07	.29	.00	.00	9.64
CLAUSOCALANUS ARCUICORNIS	.00	.11	.00	.00	.00	.00	.00	.00	5.72
CLAUSOCALANUS FURCATUS	.00	.11	.00	.28	.22	.29	.06	.00	51.59
CYMBASOMA SP.	.00	.00	.00	.00	.00	.00	.06	.00	1.25
EUCHEATA NORVEGICA	.54	.11	.25	.00	.07	.00	.13	.22	80.96
EUCHEATA SP.	.18	.06	.00	.28	.00	.00	.00	.00	48.50
GAIDIUS TENUISPINUS	1.09	.52	1.12	.73	.07	1.18	.00	.22	293.24
METRIDIA LONGA	2.72	.46	.99	.55	1.27	7.37	.69	1.10	635.30
METRIDIA LUCENS	3.63	1.72	2.85	4.40	2.99	10.91	1.81	5.07	1486.81
METRIDIA SP.	.00	.00	.00	.00	.00	.00	1.81	.00	36.25
MICROCALANUS PYGMAEUS	.00	.00	.12	.00	.00	.00	.00	.00	6.20
OITHONA ATLANTICA	.18	.29	.50	1.83	.07	1.18	.06	.00	269.21
OITHONA SIMILIS	.73	.46	.99	.83	.37	1.18	1.38	1.10	308.37
PARACALANUS PARVUS	.00	.06	.00	.09	.00	.00	.00	.00	12.83
PLEUROMAMMA ROBUSTA	.18	.17	.00	.00	.00	.00	.06	.00	27.96
PLEUROMAMMA SP.	.00	.00	.00	.09	.00	.00	.00	.00	9.17
PSEUDOCALANUS MINUTUS	.36	.40	.00	.09	.60	2.95	.19	.22	168.32
SCOLECITHRICELLA MINOR	.91	.74	.99	3.76	1.87	5.31	.31	.22	761.50
SPINOCALANUS ABYSSALLIS	4.53	1.77	1.12	5.32	3.44	25.96	.25	.00	1825.71
TEMORA LONGICORNIS	.00	.00	.00	.00	.00	.00	.06	.00	1.25
UNID/DAM/EXO COPEPOD	3.44	3.43	5.95	3.39	5.76	27.73	3.75	16.11	2231.56
PARATHEMISTO SP.	.00	.00	.00	.00	.00	.29	.00	.22	8.11
M. NORVEGICA CALYPTOSIS	.00	.00	.00	.09	.00	.29	.00	.00	15.07
M. NORVEGICA FURCILIA	.00	.00	.00	.00	.07	.00	.00	.00	3.74
T. LONGICAUDATA FURCILIAE	.00	.00	.00	.00	1.12	2.36	.06	.00	184.52
THYSANOESSA SP. CALYPTOSIS	.00	.00	.00	.46	.37	1.18	.13	.00	98.64
EUPHAUSIID EGGS	.00	.06	.00	.00	.07	.29	1.06	1.10	44.78
DAMAGED FURCILIAE	.00	.00	.12	.00	.15	2.06	.06	.00	56.23
DECAPOD LARVAE	.00	.00	.00	.00	.00	.00	.06	.00	1.25
ECHINODERMATA-LARVAE	.00	.00	.00	.00	.00	.00	.06	.00	1.25
SAGITTA SP.	.00	.00	.00	.00	.15	.00	.00	.00	7.48

TOW 24 26/09/85 2300H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	9	
LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON									
DIPHIDAE	.000	.000	.000	.006	.000	.000	.000	.000	.573
UNIDENTIFIED SIPHONOPHORE	.006	.000	.000	.000	.019	.000	.000	.000	1.501
CTENOPHORA	.003	.000	.000	.000	.000	.000	.000	.000	.283
AMPHIPODA	.000	.004	.000	.006	.019	.000	.063	.039	3.358
PARATHEMISTO GAUDICHAUDII	.000	.004	.000	.006	.019	.000	.063	.039	3.358
EUPHAUSIACEA	.045	.056	.107	.195	4.897	11.195	2.063	10.541	847.564
MEGANYCTIPHANES NORVEGICA	.000	.000	.009	.000	.056	.221	1.500	10.425	141.941
NEMATOSCELIS MEGALOPS	.003	.013	.019	.003	.000	.000	.000	.000	2.144
THYSANOESSA INERMIS	.000	.000	.000	.006	.047	.133	.000	.000	5.564
THYSANOESSA LONGICAUDATA	.042	.043	.079	.186	4.794	10.841	.563	.116	497.915
DECAPODA	.031	.013	.033	.000	.000	.000	.000	.000	5.388
PASIPHAEA SP.	.006	.009	.019	.000	.000	.000	.000	.000	1.926
SERGESTES SP.	.003	.000	.000	.000	.000	.000	.000	.000	.283
IMMATURE DECAPOD	.020	.004	.014	.000	.000	.000	.000	.000	2.895
UNIDENTIFIED DECAPOD	.003	.000	.000	.000	.000	.000	.000	.000	.283
CHAETOGNATHA	.091	.056	.163	.438	.150	.177	.063	.000	76.100
EUKHRONIA HAMATA	.076	.039	.135	.221	.019	.088	.000	.000	41.092
SAGITTA ELEGANS	.000	.004	.019	.215	.131	.088	.063	.000	32.197
SAGITTA MAXIMA	.014	.004	.009	.003	.000	.000	.000	.000	2.383
PICES	.003	.004	.005	.000	.000	.000	.000	.000	.730
BENTHOSEMA GLACIALE	.003	.004	.005	.000	.000	.000	.000	.000	.730

TOW 25 27/09/85 0930H	44 41.29 N	56 30.33								
SAMPLE	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	365.0	300.0	250.0	200.0	150.0	100.0	50.0	30.0	10.0	
DEPTH2 (M)	300.0	250.0	200.0	150.0	100.0	50.0	30.0	10.0	.0	
VOLUME OF WATER SAMPLED (M3)	198.	211.	231.	194.	138.	81.	25.	30.	17.	
TOTAL BIOMASS (G/M3)	.052	.032	.040	.028	.015	.027	.038	.013	.053	11.984
EUPHAUSIACEA BIOMASS (G/M3)	.002	.006	.002	.005	.000	.013	.207	.000	.018	

SPECIES	NUMBER PER CUBIC METER									#/M2
RADIOLARIAN	.16	.15	.00	.00	.00	.00	.07	.00	.00	19.44
FORAMINIFERA	.00	.00	.00	.00	.00	.00	.27	.17	.00	8.71
LIMACINA BULIMOIDES	.00	.00	.87	.00	.00	.00	.00	.00	.00	44.95
LIMACINA HELICOIDES	.00	.00	.00	.21	.00	.00	.00	.17	.20	15.60
LIMACINA INFLATA	.00	.76	.00	.00	.00	.10	.00	.00	.00	42.88
LIMACINA LESUEURII	.00	.61	.00	.41	.00	.00	.00	.00	.00	50.95
LIMACINA TROCHIFORMIS	.00	.00	.35	.82	.00	.00	.00	.00	.00	58.55
GYMNOSOMATA	.00	.15	.69	2.06	.87	.10	.13	.17	.40	203.89
TOMOPTERIS SP.	.00	.00	.00	.00	.15	.00	.00	.00	.00	7.27
CONCHOECIA BOREALIS	.00	.00	.00	.21	.00	.00	.00	.00	.00	10.31
CONCHOECIA CURTA	.48	.00	.00	1.44	2.18	.20	.00	.08	.40	228.33
CONCHOECIA ELEGANS	.16	.15	.17	.00	.00	.00	.00	.00	.00	26.75
CONCHOECIA OBTUSATA	.00	.00	.00	.00	1.75	.10	.07	.00	.00	93.59
CONCHOECIA SPINIFERA	1.78	.91	.87	.00	.00	.00	.07	.33	.40	216.28
CONCHOECIA ROTUNDATA	.32	.00	.00	.00	.00	.00	.00	.00	.00	21.01
CONCHOECIA SPINIROSTRIS	.00	.15	.00	.82	.15	.10	.13	.17	.00	67.07
CONCHOECIA SP.	.32	.15	.52	1.03	.00	.00	.00	.00	.00	106.11
CONCHOECIA-DAMAGED	.00	.15	.00	.00	.00	.00	.00	.00	.00	7.58
ACARTIA SP.	.00	.00	.00	.00	.00	.00	.00	.00	.20	1.98
AETIDEUS ARMATUS	.00	.00	.35	1.24	.00	.00	.13	.08	.20	85.51
CALANUS FINMARCHICUS-TOTAL	15.52	6.82	4.50	1.86	3.64	4.77	6.61	4.64	8.33	2396.24
CALANUS FINMARCHICUS (D)	.00	.00	.00	.00	.00	.50	.27	.17	.20	35.54
CALANUS FINMARCHICUS (G)	.00	.00	.00	.00	.15	.40	.20	.25	.20	38.15
CALANUS FINMARCHICUS (S)	.16	.30	.35	.00	.00	.00	.27	.17	.40	55.66
CALANUS FINMARCHICUS VIM	.00	.00	.00	.00	.29	.30	.13	.17	.00	35.46
CALANUS FINMARCHICUS VIF	.16	.30	.35	.00	.15	.89	.74	.58	.79	129.35
CALANUS FINMARCHICUS V	11.47	3.94	2.25	.62	2.33	1.69	1.75	1.82	4.37	1402.49
CALANUS FINMARCHICUS IV	3.56	2.27	1.56	.82	.73	1.09	1.62	.99	1.59	623.17
CALANUS FINMARCHICUS III	.32	.30	.35	.41	.15	.40	.81	.41	.60	131.68
CALANUS FINMARCHICUS II	.00	.00	.00	.00	.00	.30	1.35	.25	.79	54.88
CALANUS FINMARCHICUS I	.00	.00	.00	.00	.00	.10	.20	.41	.20	19.28
CALANUS GLACIALIS (D)	.00	.15	.00	.00	.00	.00	.00	.00	.00	7.58
CALANUS GLACIALIS VIF	.00	.15	.00	.00	.00	.00	.00	.00	.00	7.58
CALANUS GLACIALIS V	2.26	.76	.52	.00	.00	.20	.20	.41	.20	235.21
CALANUS GLACIALIS IV	1.13	1.06	.69	.00	.15	.10	.07	.00	.00	174.84
CALANUS GLACIALIS III	.16	.00	.00	.00	.00	.00	.00	.00	.00	10.51
CALANUS HYPERBOREUS-TOTAL	3.23	.76	.35	.00	.00	.00	.13	.25	.20	274.98
CALANUS HYPERBOREUS V	1.78	.45	.17	.00	.00	.00	.07	.17	.00	151.62
CALANUS HYPERBOREUS IV	1.45	.30	.17	.00	.00	.00	.07	.08	.20	123.36
CLAUSOCALANUS ARCUICORNIS	.00	.00	.00	.00	10.76	.60	.00	.00	3.37	601.73
CLAUSOCALANUS FURCATUS	.00	.30	2.25	10.72	.00	.10	.34	.25	1.98	700.33
CLYTEMENSTRA SP.	.00	.00	.00	.00	.00	.00	.13	.00	.00	2.70
CONAEA SP.	.00	.00	.17	.21	.00	.00	.00	.00	.00	18.97
EUAETIDEUS GIESBRECHTI	.00	.00	.17	.00	.00	.00	.00	.00	.00	8.66
EUCHEATA NORVEGICA	.48	.15	.17	.00	.00	.00	.00	.00	.20	49.74
EUCHAETA TONSA	.16	.00	.00	.00	.00	.00	.00	.00	.00	10.51
EUCHEATA SP.	.00	.15	.00	.41	.87	1.19	.00	.00	.00	131.47
EUCHIRELLA SP.	.00	.15	.00	.00	.00	.00	.00	.00	.00	7.58
GAIDIUS TENUISPINUS	.32	.00	.00	.00	.00	.00	.00	.00	.00	21.01
HETERORHABDUS PAPILLIGER	.00	.00	.00	.21	.00	.00	.00	.00	.00	10.31
MECYNOCERA CLAUSI	.00	.00	.00	.00	.00	.00	.07	2.73	.20	57.97
METRIDIA LONGA	3.23	.91	.87	2.89	.29	.20	.27	.33	.79	487.66
METRIDIA LUCENS	1.78	7.28	4.16	1.44	1.16	.40	.67	.50	.79	868.92
METRIDIA SP.	.00	1.36	7.62	11.55	12.07	4.67	.74	1.24	3.77	1941.07
MICROCALANUS PYGMAEUS	.32	.15	1.21	.00	.29	.00	.00	.08	.00	105.40
MICROSTELLA SP.	.16	.00	.00	.00	.00	.00	.00	.00	.00	10.51
NANNOCALANUS MINOR	.00	.00	.00	.00	.00	.00	.00	.00	.40	5.62
OITHONA ATLANTICA	.48	1.21	9.00	3.71	13.96	3.18	.61	1.32	.99	1633.71
OITHONA SIMILIS	.00	.00	.00	.00	.00	.00	.00	.83	12.90	145.52
PARACALANUS PARVUS	.00	.00	.00	.00	.00	.00	3.31	4.97	17.26	338.08
PLEUROMAMMA ROBUSTA	.16	1.52	.69	.00	.00	.00	.13	.08	.40	129.29
PLEUROMAMMA SP.	.00	.00	.35	.00	.15	.00	.00	.00	.00	24.59
PSEUDOCALANUS MINUTUS	2.91	3.94	2.94	2.27	2.47	10.14	.20	.25	3.37	1320.05
SCOLECITHRICELLA MINOR	2.10	4.40	2.42	7.42	6.69	.10	.27	.91	.99	1221.86
SCOLECITHRICELLA SP.	.16	.00	.00	.00	.00	.00	.00	.00	.00	10.51
SPINOCALANUS SP.	1.29	1.82	.69	.00	.00	.00	.00	.00	.00	289.67
UNID/DAM/EXO COPEPOD	1.62	2.43	13.33	1.44	5.53	4.37	4.72	7.45	11.51	1818.76

TOW 25 27/09/85 0930H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER									#/M2
COPEPOD NAUPLII	.16	.00	.00	.00	.00	.00	.00	.00	.00	10.51
PARATHEMISTO GAUDICHAUDI	.00	.00	.00	.00	.00	.00	.07	.00	.00	1.35
PARATHEMISTO-IMMATURE	.16	.00	.00	.00	.00	.00	.00	.00	.00	10.51
ISOPOD	.00	.00	.00	.00	.00	.10	.00	.00	.00	4.97
EUPHAUSIID EGGS	.00	.15	.00	.00	.00	.00	.00	.00	.00	7.58
EUPHAUSIID NAUPLII	.16	.30	.00	.00	1.16	1.99	.07	.00	.00	186.24
DAMAGED FURCILIAE	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.66
ECHINODERMATA-LARVAE	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.66
SAGITTA SP.	.00	.00	.00	.00	.00	.00	.00	.00	.20	1.98
EUKRONIA SP.	.00	.00	.00	.21	.00	.00	.07	.00	.20	13.64
OIKOPLEURA SP.	.00	.00	.00	.00	.29	.20	.00	.00	.00	24.48
FRITILLARIA SP.	.00	.00	.00	.00	1.16	.10	.13	.00	.00	65.85
FISH EGGS	.00	.00	.00	.00	.00	.00	.07	.00	.00	1.35

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

UNIDENTIFIED SIPHONOPHORE	.005	.000	.000	.000	.007	.000	.000	.000	.000	.692
TOMOPTERIS SP.	.000	.005	.000	.005	.007	.000	.000	.000	.000	.858
EUPHAUSIACEA	.141	.351	.165	.113	.022	.137	2.348	.033	.298	99.148
EUPHAUSIA KROHNII	.000	.270	.152	.021	.000	.000	.000	.000	.000	22.114
MEGANYCTIPHANES NORVEGICA	.005	.014	.000	.036	.000	.075	.000	.000	.119	7.760
NEMATOSCELIS MEGALOPS	.015	.000	.000	.005	.000	.000	.000	.000	.000	1.243
THYSANOESSA INERMIS	.000	.005	.000	.000	.000	.000	.000	.000	.000	.237
THYSANOESSA LONGICAUDATA	.121	.028	.009	.000	.022	.000	2.348	.033	.179	68.236
DAMAGED/UNIDENTIFIED EUPHAUS	.000	.033	.004	.052	.000	.062	.000	.006	.000	7.558
DECAPODA	.051	.000	.009	.005	.000	.000	.000	.000	.000	3.973
PASIPHAEA SP.	.015	.000	.009	.005	.000	.000	.000	.000	.000	1.675
SERGESTES SP.	.025	.000	.000	.000	.000	.000	.000	.000	.000	1.641
IMMATURE DECAPOD	.010	.000	.000	.000	.000	.000	.000	.000	.000	.657
CHAETOGNATHA	.086	.123	.078	.526	1.120	.497	.081	.364	.000	131.676
EUKHRONIA HAMATA	.076	.000	.074	.505	1.055	.199	.040	.000	.000	97.337
SAGITTA ELEGANS	.000	.081	.004	.005	.036	.273	.000	.364	.000	27.270
SAGITTA MAXIMA	.010	.043	.000	.015	.029	.025	.040	.000	.000	7.069

TOW 27 27/09/85 1530H	44 22.68 N	56 14.02								
SAMPLE	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	1427.0	1350.0	1250.0	1200.0	1100.0	1050.0	950.0	850.0	750.0	
DEPTH2 (M)	1350.0	1250.0	1200.0	1100.0	1050.0	950.0	850.0	750.0	650.0	
VOLUME OF WATER SAMPLED (M3)	167.	267.	159.	344.	181.	234.	122.	69.	86.	
TOTAL BIOMASS (G/M3)	.020	.021	.043	.037	.045	.036	.041	.071	.105	36.960
EUPHAUSIACEA BIOMASS (G/M3)	.000	.000	.003	.000	.001	.002	.001	.002	.000	

SPECIES	NUMBER PER CUBIC METER									#/M2
MEDUSA	.00	.00	.00	.00	.00	.00	.00	.00	.04	3.88
SIPHONOPHORA	.00	.00	.18	.05	.00	.10	.15	.00	.00	38.66
LIMACINA HELICOIDES	.00	.00	.00	.00	.00	.10	.00	.00	.00	9.77
LIMACINA LESUEURII	.00	.01	.00	.00	.02	.00	.00	.00	.00	2.42
LIMACINA TROCHIFORMIS	.00	.00	.00	.00	.02	.00	.00	.00	.00	.92
GYMNOSOMATA	.00	.01	.00	.00	.00	.00	.00	.03	.04	8.27
POLYCHAETA LARVAE	.00	.00	.00	.00	.02	.00	.00	.00	.19	20.30
TOMOPTERIS SP.	.03	.00	.00	.00	.00	.00	.00	.00	.00	2.31
CONCHOECIA AMETRA	.00	.00	.00	.00	.00	.00	.00	.00	.04	3.88
CONCHOECIA BOREALIS	.00	.00	.09	.03	.04	.39	.00	.14	.12	74.19
CONCHOECIA OBTUSATA	.00	.03	.00	.00	.00	.00	.00	.00	.00	3.00
CONCHOECIA SPINIFERA	.00	.00	.00	.00	.00	.10	.00	.00	.00	9.77
CONCHOECIA SPINIROSTRIS	.00	.00	.00	.03	.00	.10	.00	.00	.00	12.35
CONCHOECIA SP.	.03	.00	.00	.13	.04	.59	.04	.14	.31	124.82
CONCHOECIA-DAMAGED	.00	.00	.00	.00	.00	.00	.04	.00	.00	3.64
HALOCYPRIS GLOBOSA	.00	.01	.09	.00	.00	.00	.00	.00	.00	6.07
AETIDEUS ARMATUS	.00	.03	.00	.05	.02	.10	.00	.03	.00	21.75
AMALLOTHRIX SP.	.00	.00	.00	.00	.00	.00	.00	.00	.04	3.88
BATHYCALANUS RICHARDI	.00	.01	.00	.00	.00	.00	.00	.03	.00	4.40
CALANUS FINMARCHICUS-TOTAL	1.68	.76	5.21	.98	1.42	3.13	1.68	2.43	1.28	1486.86
CALANUS FINMARCHICUS (D)	.12	.06	.09	.00	.11	.00	.04	.00	.00	28.96
CALANUS FINMARCHICUS (S)	.12	.04	.18	.00	.06	.49	.07	.09	.12	102.00
CALANUS FINMARCHICUS VIF	.24	.10	.27	.00	.17	.49	.11	.09	.12	131.03
CALANUS FINMARCHICUS V	1.35	.64	4.76	.96	1.20	2.54	1.46	2.23	1.12	1296.75
CALANUS FINMARCHICUS IV	.09	.01	.18	.03	.06	.10	.11	.09	.04	56.18
CALANUS FINMARCHICUS I	.00	.00	.00	.00	.00	.00	.00	.03	.00	2.90
CALANUS GLACIALIS (D)	.00	.00	.00	.00	.00	.20	.00	.00	.00	19.54
CALANUS GLACIALIS (S)	.03	.00	.00	.00	.00	.00	.00	.00	.00	2.31
CALANUS GLACIALIS VIF	.03	.00	.00	.00	.00	.20	.00	.00	.00	21.84
CALANUS GLACIALIS V	.12	.03	.18	.03	.06	.39	.11	.14	.04	95.08
CALANUS GLACIALIS IV	.06	.01	.00	.00	.00	.00	.00	.03	.00	9.01
CALANUS GLACIALIS III	.00	.00	.00	.03	.00	.10	.04	.03	.04	22.77
CALANUS HYPERBOREUS-TOTAL	1.08	.85	1.56	.93	.77	1.86	1.42	1.83	1.36	1023.78
CALANUS HYPERBOREUS (D)	.03	.09	.00	.00	.06	.00	.04	.09	.04	30.27
CALANUS HYPERBOREUS (S)	.03	.12	.09	.16	.07	.10	.22	.41	.04	114.13
CALANUS HYPERBOREUS VIF	.06	.21	.09	.16	.13	.10	.26	.49	.08	144.40
CALANUS HYPERBOREUS V	.30	.34	.46	.34	.33	.29	.69	.72	.58	359.67
CALANUS HYPERBOREUS IV	.63	.28	.91	.39	.29	1.27	.44	.58	.66	470.67
CALANUS SP.	1.17	1.02	9.88	.47	.24	.20	.51	1.77	.70	1061.38
CHIRIDIUS ARMATUS	.00	.00	.00	.18	.00	.00	.07	.14	.00	32.11
CHIRIDIUS GRACILIS	.00	.01	.00	.00	.00	.00	.00	.00	.00	1.50
CLAUSOCALANUS FURCATUS	.06	.01	.55	.16	.17	.59	.07	.09	.04	135.81
CLYTEMNESTRA SCUTELLATA	.00	.00	.00	.00	.00	.00	.00	.03	.00	2.90
EUAUGAPTILIS MAGNUS	.00	.00	.00	.00	.00	.00	.00	.03	.00	2.90
EUCALANUS ATTENUATUS	.03	.03	.09	.00	.02	.29	.04	.03	.00	54.39
EUCALANUS ELONGATUS	.00	.04	.00	.18	.02	.10	.11	.12	.08	55.79
EUCHEATA NORVEGICA	.03	.04	.27	.05	.18	.98	.55	.84	.54	325.54
EUCHAETA TONSA	.00	.03	.18	.05	.13	.59	.29	.49	.39	199.54
EUCHEATA SP.	.00	.00	.00	.05	.04	.29	.07	.06	.04	53.27
GAETANUS KRUPPII	.00	.00	.00	.00	.02	.00	.00	.03	.00	3.82
GAETANUS PILEATUS	.00	.00	.09	.00	.00	.00	.00	.00	.00	4.57
GAIDIUS TENUISPINUS	.12	.03	.46	.00	.00	.68	.00	.14	.16	133.46
GAIDIUS BREVISPINUS	.00	.00	.00	.00	.02	.00	.00	.00	.00	.92
HALOPTILUS SP.	.03	.00	.00	.00	.00	.00	.00	.00	.00	2.31
LOPHOTHRIX FRONTALIS	.00	.00	.00	.00	.02	.00	.00	.00	.00	.92
LUBBOCKIA SQUILLIMANA	.00	.01	.18	.05	.00	.10	.00	.03	.00	28.48
LUCICUTIA FLAVICORNIS	.00	.00	.00	.00	.00	.00	.07	.00	.00	7.29
LUCICUTIA OVALIS	.06	.00	.00	.00	.00	.00	.00	.00	.00	4.61
LUCICUTIA TENUICAUDATA	.06	.00	.00	.05	.04	.00	.07	.00	.00	18.91
MEGACALANUS PRINCEPS	.03	.00	.00	.00	.00	.00	.00	.00	.00	2.31
METRIDIA LONGA	.27	.09	1.92	.26	.24	1.07	.55	.67	.27	419.49
METRIDIA LUCENS	.57	.15	1.83	.62	.57	2.15	.88	1.42	1.20	798.85
METRIDIA VENUSTA	.42	.12	.18	.16	.02	.20	.04	.14	.89	196.65
MICROCALANUS PYGMAEUS	.00	.00	.00	.03	.00	.00	.00	.00	.00	2.58
OITHONA ATLANTICA	.00	.00	.55	.00	.04	.00	.00	.00	.00	37.04
OITHONA SIMILIS	.00	.01	.18	.05	.02	.00	.11	.03	.04	34.44
OITHONA SP.	.04	.22	.00	.00	.00	.00	.00	.00	.39	125.78

TOW 27 27/09/85 1530H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER									#/M2
ONCAEA BOREALIS	.33	.19	1.01	.47	.15	2.54	.04	.03	.19	428.92
ONCAEA SP.	.00	.00	1.83	.75	.07	1.27	.04	.03	.00	303.63
ONCHOCALANUS TRIGONICEPS	.00	.00	.00	.00	.00	.00	.00	.03	.00	2.90
PARACALANUS PARVUS	.00	.00	.27	.00	.00	.00	.18	.09	.00	48.63
PLEUROMAMMA ROBUSTA	.00	.00	.00	.03	.00	.00	.04	.03	.00	9.13
PSEUDOCALANUS MINUTUS	.03	.00	.00	.00	.00	.00	.00	.00	.00	2.31
PSEUDOCHIRELLA OBTUSATA	.03	.00	.00	.00	.00	.00	.00	.00	.00	2.31
RHINCALANUS CORNUTUS	.03	.00	.09	.00	.02	.10	.00	.03	.12	32.09
RHINCALANUS NASUTUS	.00	.03	.00	.00	.00	.00	.00	.00	.04	6.87
SCAPHOCALANUS MAGNUS	.00	.00	.00	.00	.00	.00	.07	.00	.00	7.29
SCAPHOCALANUS MEDIUS	.27	.15	.46	.18	.00	.98	.07	.00	.00	189.41
SCAPHOCALANUS SP.	.03	.00	.00	.00	.00	.00	.00	.00	.00	2.31
SCOLECITHRICELLA MINOR	.00	.00	.18	.05	.09	.00	.00	.03	.00	21.82
SCOLECITHRICELLA SP.	.00	.00	.18	.00	.00	.00	.00	.00	.04	13.02
SPINOCALANUS ABYSSALLIS	.39	.06	.18	.26	.07	1.95	.04	.17	.31	322.04
SPINOCALANUS SP.	.18	.00	.00	.03	.00	.20	.00	.00	.00	35.95
TEMORITES BREVIS	.00	.00	.00	.03	.00	.00	.00	.00	.00	2.58
UNID/DAM/EXO COPEPOD	3.02	1.84	9.79	2.76	1.58	7.81	2.08	4.55	4.26	3132.73
AMPHIPODA EGGS	.00	.00	.00	.00	.00	.00	.87	.00	.27	114.56
UNIDENTIFIED GAMMARID	.00	.00	.00	.00	.02	.00	.04	.09	.00	13.26
T. LONGICAUDATA FURCILIAE	.00	.00	.00	.00	.02	.00	.00	.06	.00	6.72
THYSANOESSA SP. CALYPTOSIS	.00	.00	.00	.00	.00	.10	.00	.00	.00	9.77
EUPHAUSIID NAUPLII	.00	.00	.00	.00	.00	.00	.00	.00	.19	19.38
DAMAGED FURCILIAE	.06	.01	.09	.05	.09	.20	.04	.09	.04	56.21
EUKRONIA HAMATUS	.00	.00	.00	.00	.00	.00	.00	.03	.00	2.90

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

UNIDENTIFIED SIPHONOPHORE	.000	.007	.000	.003	.006	.004	.000	.000	.000	1.743
PERIPHYLLA	.000	.000	.000	.003	.006	.000	.008	.000	.000	1.387
UNIDENTIFIED MEDUSA	.000	.004	.000	.003	.000	.000	.000	.000	.000	.665
UNIDENTIFIED POLYCHAET	.006	.000	.000	.000	.000	.004	.000	.000	.000	.888
TOMOPTERIS SP.	.000	.000	.000	.003	.000	.000	.000	.000	.000	.291
AMPHIPODA	.000	.007	.000	.003	.000	.009	.008	.000	.012	3.877
PARATHEMISTO GAUDICHAUDII	.000	.007	.000	.003	.000	.009	.008	.000	.000	2.714
UNIDENTIFIED GAMMARID	.000	.000	.000	.000	.000	.000	.000	.000	.012	1.163
MYSIDACEA	.006	.004	.013	.006	.017	.021	.033	.043	.035	16.126
BOREOMYSIS SP.	.000	.000	.013	.003	.011	.021	.033	.014	.023	10.662
EUCOPIA SP.	.006	.004	.000	.003	.006	.000	.000	.029	.012	5.464
EUPHAUSIACEA	.048	.064	.157	.052	.083	.291	.148	.304	.081	109.682
EUPHAUSIA KROHNII	.006	.000	.013	.000	.006	.004	.000	.000	.000	1.794
MEGANYCTIPHANES NORVEGICA	.000	.000	.006	.000	.000	.000	.000	.000	.000	.314
NEMATOSCELIS MEGALOPS	.000	.000	.000	.000	.000	.004	.000	.000	.000	.427
THYSANOESSA LONGICAUDATA	.042	.064	.138	.052	.077	.282	.148	.304	.081	107.146
DECAPODA	.000	.000	.000	.009	.000	.004	.000	.014	.047	7.400
GENNADAS SP.	.000	.000	.000	.006	.000	.004	.000	.000	.012	2.172
PASIPHAEA SP.	.000	.000	.000	.000	.000	.000	.000	.014	.000	1.449
SERGESTES SP.	.000	.000	.000	.003	.000	.000	.000	.000	.023	2.616
UNIDENTIFIED DECAPOD	.000	.000	.000	.000	.000	.000	.000	.000	.012	1.163
CHAETOGNATHA	.084	.026	.126	.064	.072	.145	.115	.275	.105	89.359
EUKHRONIA FOWLERI	.000	.000	.006	.006	.006	.004	.008	.000	.000	2.419

TOW 27 27/09/85 1530H (CONTINUED)

SAMPLE	2	3	4	5	6	7	8	9	10	
SPECIES	NUMBER PER CUBIC METER									#/M2
EUKHRONIA HAMATA	.072	.011	.088	.035	.039	.060	.066	.087	.093	47.019
SAGITTA MACROCEPHALA	.012	.015	.031	.020	.028	.081	.033	.116	.000	30.401
SAGITTA MAXIMA	.000	.000	.000	.003	.000	.000	.000	.000	.012	1.453
SAGITTA ZETOSIS	.000	.000	.000	.000	.000	.000	.008	.014	.000	2.269
UNIDENTIFIED CHAETOGNATH	.000	.000	.000	.000	.000	.000	.000	.058	.000	5.797
PICES	.000	.004	.019	.006	.011	.021	.000	.029	.047	12.138
BENTHOSEMA GLACIALE	.000	.000	.000	.000	.006	.000	.000	.000	.000	.276
CYCLOTHONE SP.	.000	.004	.019	.006	.006	.017	.000	.029	.023	9.109
LAMPANYCTUS SP.	.000	.000	.000	.000	.000	.004	.000	.000	.000	.427
SCOPELOGADUS SP.	.000	.000	.000	.000	.000	.000	.000	.000	.012	1.163
UNIDENTIFIED FISH LARVE	.000	.000	.000	.000	.000	.000	.000	.000	.012	1.163

TOW 26 27/09/85 1230H	44 25.54 N 56 16.76									
SAMPLE	2	3	4	5	6	7	8	9	10	
DEPTH1 (M)	700.0	600.0	500.0	400.0	300.0	200.0	89.0	50.0	30.0	
DEPTH2 (M)	600.0	500.0	400.0	300.0	200.0	89.0	50.0	20.0	.0	
VOLUME OF WATER SAMPLED (M3)	247.	512.	1057.	369.	81.	70.	22.	24.	24.	
TOTAL BIOMASS (G/M3)	.032	.053	.063	.047	.036	.022	.039	.076	.075	31.592
EUPHAUSIACEA BIOMASS (G/M3)	.000	.006	.003	.002	.005	.001	.002	.020	.016	

SPECIES	NUMBER PER CUBIC METER									#/M2
UNIDENTIFIED/DAMAGED MEDUSA	.03	.05	.00	.00	.00	.00	.00	.00	.00	8.45
SIPHONOPHORA	.00	.00	.00	.00	.00	.00	.09	.00	.00	3.58
LIMACINA BULIMOIDES	.02	.00	.00	.00	.00	.00	.00	.00	.00	1.62
LIMACINA HELICOIDES	.00	.00	.00	.00	.00	.00	.05	.21	.50	23.10
LIMACINA LESUEURII	.00	.00	.00	.00	.00	.00	.69	.83	.08	54.35
LIMACINA TROCHIFORMIS	.00	.00	.00	.00	.00	.00	.05	.04	.00	3.04
GYMNOSOMATA	.02	.05	.00	.17	.00	.00	.00	.00	.08	26.68
TOMOPTERIS SP.	.02	.00	.00	.00	.00	.00	.00	.00	.00	1.62
CONCHOECIA AMETRA	.02	.00	.00	.00	.00	.00	.00	.00	.08	4.13
CONCHOECIA BOREALIS	.03	.05	.00	.00	.00	.00	.00	.00	.00	8.45
CONCHOECIA CURTA	.00	.00	.00	.00	.00	1.14	.00	.00	.00	126.14
CONCHOECIA SPINIFERA	.00	.05	.30	.17	.25	.00	.00	.04	.00	78.77
CONCHOECIA SPINIROSTRIS	.13	.05	.00	.00	.00	.00	.00	.00	.08	29.67
CONCHOECIA SP.	.11	.36	.00	.00	.08	.38	.00	.00	.00	98.07
CONCHOECIA-DAMAGED	.15	.00	.00	.00	.00	.00	.00	.00	.00	14.57
ACARTIA CLAUSI	.00	.00	.00	.00	.08	.00	.00	.00	.42	20.78
ACARTIA DANAE	.00	.00	.00	.00	.00	.00	.00	.00	1.17	35.15
AETIDEUS ARMATUS	.00	.00	.00	.00	.00	1.52	.00	.00	.00	168.18
CALANUS FINMARCHICUS-TOTAL	.87	5.57	21.95	18.73	5.10	8.33	3.12	5.83	8.70	6705.83
CALANUS FINMARCHICUS (D)	.02	.05	.61	.35	.08	.38	.00	.17	.17	162.36
CALANUS FINMARCHICUS (G)	.00	.00	.00	.00	.00	.38	.05	.04	.08	47.59
CALANUS FINMARCHICUS (S)	.02	.26	.61	.52	.00	.00	.09	.21	.33	160.11
CALANUS FINMARCHICUS VIF	.03	.31	1.21	.87	.08	.76	.14	.42	.59	370.07
CALANUS FINMARCHICUS V	.76	5.00	19.98	16.48	4.61	5.30	2.66	4.21	6.69	5702.31
CALANUS FINMARCHICUS IV	.08	.26	.61	1.39	.41	1.89	.32	1.13	1.17	566.24
CALANUS FINMARCHICUS III	.00	.00	.15	.00	.00	.38	.00	.08	.17	64.70
CALANUS FINMARCHICUS II	.00	.00	.00	.00	.00	.00	.00	.00	.08	2.51
CALANUS GLACIALIS (G)	.00	.00	.00	.00	.00	.00	.00	.00	.08	2.51
CALANUS GLACIALIS VIF	.00	.00	.00	.00	.00	.00	.00	.00	.08	2.51
CALANUS GLACIALIS V	.15	1.04	3.63	1.91	.25	1.14	.46	.50	.50	871.60
CALANUS GLACIALIS IV	.03	.05	.00	.00	.00	.00	.00	.04	.00	9.70
CALANUS HYPERBOREUS-TOTAL	.29	.31	.00	.17	.25	.00	.05	.13	.08	110.48
CALANUS HYPERBOREUS (D)	.05	.05	.00	.00	.00	.00	.00	.00	.00	10.07
CALANUS HYPERBOREUS (S)	.00	.00	.00	.00	.00	.00	.00	.04	.00	1.25
CALANUS HYPERBOREUS VIF	.05	.05	.00	.00	.00	.00	.00	.04	.00	11.32
CALANUS HYPERBOREUS V	.16	.21	.00	.17	.08	.00	.05	.04	.00	65.64
CALANUS HYPERBOREUS IV	.08	.05	.00	.00	.16	.00	.00	.04	.08	33.53
CALANUS SP.	.21	.42	.00	.69	1.15	1.14	2.43	4.50	1.92	661.02
CALANUS MINOR	.00	.00	.00	.00	.08	.00	.05	.08	3.35	112.94
CLAUSOCALANUS FURCATUS	.00	.16	.00	1.39	1.65	32.20	.37	.13	.59	3928.49
CLYTEMNESTRA SCUTELLATA	.00	.00	.00	.00	.00	.00	.05	.08	.00	4.29
EUCALANUS ATTENUATUS	.05	.10	.00	.00	.00	.00	.00	.00	.00	15.27
EUCALANUS ELONGATUS	.00	.05	.00	.00	.00	.00	.00	.00	.00	5.21
EUCHEATA NORVEGICA	.52	.10	.45	.00	.33	.38	.18	.33	.08	202.28
EUCHAETA TONSA	.00	.31	.00	.00	.25	.00	.09	.04	.17	65.79
EUCHEATA SP.	.10	.47	.15	.52	.58	1.14	.00	.00	.17	312.53
GAIDIUS TENUISPINUS	.11	.36	.45	.52	.08	.00	.05	.13	.25	166.54
MECYNOCERA CLAUSI	.00	.05	.15	.00	.16	.00	.00	.04	6.11	221.32
METRIDIA LONGA	.16	.05	2.72	2.95	1.56	.38	.78	.79	.59	858.88
METRIDIA LUCENS	.26	.47	.61	4.51	7.41	26.89	.28	.71	.67	4362.32
MICROCALANUS PYGMAEUS	.00	.00	.00	.00	.00	.00	.09	.00	.00	3.58
MORMONILLA PHASMA	.02	.00	.00	.00	.00	.00	.00	.00	.00	1.62
OITHONA ATLANTICA	.02	.05	.15	.87	.25	10.23	1.06	.08	.08	1314.76
OITHONA SIMILIS	.00	.00	.15	.17	.08	.00	.28	.21	.08	60.21
ONCAEA MEDIA	.00	.10	.00	.00	.00	.00	.00	.00	.00	10.42
ONCAEA SP.	.18	.00	.15	.00	.00	.00	.00	.00	.08	35.46
PARACALANUS PARVUS	.02	.00	.00	.00	.08	.00	.00	.00	1.34	50.02
PHAENNA SPINIFERA	.00	.00	.15	.00	.00	.00	.00	.00	.00	15.14
PLEUROMAMMA ROBUSTA	.00	.00	.15	.35	.00	.00	.00	.00	.00	49.83
PSEUDOCALANUS MINUTUS	.00	.00	.61	.00	.00	.00	.00	.00	.17	65.57
RHINCALANUS CORNUTUS	.00	.00	.00	.00	.08	.00	.00	.00	.00	8.23
SCAPHOCALANUS MEDIUS	.00	.00	.00	.69	.00	.00	.00	.00	.00	69.38
SCOLECITHRICELLA MINOR	.11	.31	.15	3.47	1.07	7.58	.09	.33	.25	1373.62
SCOLECITHRICELLA SP.	.00	.00	.30	.00	.00	.00	.00	.00	.00	30.27
SCOTTCALANUS SECURIFRONS	.02	.00	.00	.00	.00	.00	.00	.00	.00	1.62
SPINOCALANUS ABYSSALLIS	.92	1.35	.00	2.60	.08	.00	.00	.00	.00	496.12
SPINOCALANUS SP.	.00	.00	.45	.00	.00	.00	.00	.00	.00	45.41

TOW 26 27/09/85 1239H (CONTINUED)

SAMPLE / SPECIES	2	3	4	5	6	7	8	9	10	#/M2
	NUMBER PER CUBIC METER									
UNDEUCHEATA MAJOR	.00	.10	.00	.17	.00	.00	.00	.00	.00	27.76
UNID/DAM/EXO COPEPOD	1.43	2.19	3.03	3.30	7.98	21.97	2.52	3.25	8.62	4885.01
AMPHIPODA EGGS	1.15	.00	.00	.00	.00	2.65	.00	.04	.00	410.55
PARATHEMISTO SP.	.00	.00	.00	.00	.00	.00	.00	.08	1.76	55.22
UNIDENTIFIED AMPHIPOD	.05	.00	.00	.00	.00	.00	.05	.00	.00	6.65
M. NORVEGICA CALYPTOSIS	.00	.00	.00	.00	.00	.00	.00	.04	.00	1.25
M. NORVEGICA FURCILIA	.00	.00	.00	.00	.00	.00	.00	.00	.08	2.51
THYSANOESSA RASCHII FURCILIA	.00	.00	.00	.00	.00	.00	.05	.21	.00	8.04
T. LONGICAUDATA FURCILIAE	.00	.00	.00	.00	.00	.00	.00	.79	1.42	66.43
THYSANOESSA SP. FURCILIAE	.00	.00	.00	.00	.00	.38	.05	.08	.00	46.33
THYSANOESSA SP. CALYPTOSIS	.00	.00	.00	.00	.00	2.65	.28	.04	.00	306.30
EUPHAUSIID EGGS	.02	.00	.00	.00	.00	.00	.00	.04	.00	2.87
DAMAGED FURCILIAE	.00	.00	.00	.00	.00	.76	.00	.71	1.26	143.00
EUKRONIA HAMATUS	.02	.00	.00	.00	.00	.00	.00	.00	.00	9.85
DAMAGED CHAETOGNATH	.02	.00	.00	.00	.25	.00	.05	.00	.00	30.61
FISH EGGS	.02	.00	.00	.00	.00	.00	.00	.00	.00	1.62

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

UNIDENTIFIED SIPHONOPHORE	.004	.002	.001	.000	.000	.000	.000	.000	.000	.695
PERIPHYLLA	.000	.000	.000	.000	.000	.000	.000	.000	.000	.810
UNIDENTIFIED MEDUSA	.000	.004	.000	.000	.000	.000	.000	.000	.000	.391
LIMACINA SP.	.004	.000	.000	.000	.000	.000	.000	.000	.000	.405
TOMOPTERIS SP.	.000	.000	.000	.005	.000	.000	.000	.000	.000	.542
AMPHIPODA	.000	.023	.005	.000	.000	.014	.092	.083	.000	10.471
PARATHEMISTO GAUDICHAUDII	.000	.021	.004	.000	.000	.014	.092	.083	.000	10.182
UNIDENTIFIED GAMMARID	.000	.002	.001	.000	.000	.000	.000	.000	.000	.290
MYSIDACEA	.012	.004	.000	.000	.012	.000	.000	.000	.000	2.840
BOREOMYSIS SP.	.012	.004	.000	.000	.012	.000	.000	.000	.000	2.840
EUPHAUSIACEA	.020	.078	.041	.065	.123	.057	.138	1.875	.711	122.017
EUPHAUSIA KROHNII	.000	.000	.005	.054	.099	.000	.046	.042	.000	18.809
MEGANYCTIPHANES NORVEGICA	.000	.018	.014	.003	.012	.000	.000	.000	.042	5.938
NEMATOSCELIS MEGALOPS	.000	.000	.000	.003	.000	.014	.000	.000	.000	1.848
THYSANOESSA INERMIS	.000	.000	.000	.000	.000	.000	.000	.042	.000	1.250
THYSANOESSA LONGICAUDATA	.020	.047	.018	.005	.012	.043	.092	1.792	.669	92.428
THYSANOPODA SP.	.000	.014	.003	.000	.000	.000	.000	.000	.000	1.651
DAMAGED/UNIDENTIFIED EUPHAUS	.000	.000	.001	.000	.000	.000	.000	.000	.000	.095
DECAPODA	.004	.061	.006	.005	.012	.000	.000	.000	.042	10.059
ACANTHYPHYRA SP.	.000	.000	.000	.003	.000	.000	.000	.000	.000	.271
GENNADAS SP.	.004	.002	.000	.000	.000	.000	.000	.000	.000	.600
PASIPHAEA SP.	.000	.000	.000	.003	.000	.000	.000	.000	.000	.271
PENAEIDAE	.000	.000	.001	.000	.000	.000	.000	.000	.000	.095
SERGESTES SP.	.000	.059	.005	.000	.012	.000	.000	.000	.042	8.822
CHAETOGNATHA	.040	.055	.149	.230	.160	.099	.275	.083	2.469	161.785
EUKHRONIA HAMATA	.028	.035	.143	.225	.123	.043	.275	.000	.167	75.959
SAGITTA ELEGANS	.000	.000	.001	.003	.000	.014	.000	.083	2.301	73.480
SAGITTA LYRA	.000	.000	.001	.000	.000	.000	.000	.000	.000	.095
SAGITTA MAXIMA	.012	.020	.004	.003	.037	.043	.000	.000	.000	12.251
PICES	.012	.031	.022	.003	.025	.000	.046	.000	.000	11.045
BENTHOSEMA GLACIALE	.000	.004	.005	.000	.000	.000	.000	.000	.000	.864
CYCLOTHONE SP.	.012	.027	.017	.003	.025	.000	.046	.000	.000	10.181